

AVerTV 3D

User Manual • English

Disclaimer

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Chapter 1 Device Introduction

Thanks for purchasing AVerMedia's product. The table below lists an overview of the product you purchased. From this table, you can quickly learn about your product features and know which chapter you need to read. Please do read this table before using AVerTV 3D application.

| Product Name | AVerTV HD PRO |
|------------------------|--|
| Model No. | H868 |
| TV System | <input checked="" type="checkbox"/> Digital TV (<input type="checkbox"/> DVB-T <input type="checkbox"/> ATSC <input type="checkbox"/> DVB-S <input checked="" type="checkbox"/> ISDB-T) <input checked="" type="checkbox"/> Analog TV (<input checked="" type="checkbox"/> NTSC <input checked="" type="checkbox"/> PAL <input checked="" type="checkbox"/> SECAM) |
| Audio Mode | <input checked="" type="checkbox"/> Stereo <input checked="" type="checkbox"/> Mono <input checked="" type="checkbox"/> SAP |
| Radio | <input checked="" type="checkbox"/> Support <input type="checkbox"/> Not Support |
| External Signal Source | <input checked="" type="checkbox"/> S-Video <input checked="" type="checkbox"/> Composite |
| Others | <input checked="" type="checkbox"/> Teletext <input type="checkbox"/> MHEG-5 (UK only) <input checked="" type="checkbox"/> EPG <input type="checkbox"/> iEPG (USA only) <input type="checkbox"/> Closed Caption (USA only) <input type="checkbox"/> Digital Subtitle <input checked="" type="checkbox"/> 3DTV (<input checked="" type="checkbox"/> Real 3D <input type="checkbox"/> see3D) |
| Reference Chapter | <input checked="" type="checkbox"/> Chapter 1 <input checked="" type="checkbox"/> Chapter 2 <input checked="" type="checkbox"/> Chapter 3 (<input checked="" type="checkbox"/> 3.1- 3.8.2 <input checked="" type="checkbox"/> 3.8.4) <input checked="" type="checkbox"/> Chapter 4 <input checked="" type="checkbox"/> Chapter 5 <input checked="" type="checkbox"/> Chapter 6 <input checked="" type="checkbox"/> Chapter 7 <input checked="" type="checkbox"/> Chapter 8 |
| Remote Control | <input checked="" type="checkbox"/> Support <input type="checkbox"/> Model 1 (RM-HR) <input type="checkbox"/> Model 2 (RM-FP) <input type="checkbox"/> Model 3 (RM-JC) <input type="checkbox"/> Model 4 (RM-JX) <input checked="" type="checkbox"/> Model 5 (RM-KS) <input type="checkbox"/> Model 6 (RM-KV) <input type="checkbox"/> Model 7 (RM-HV) <input type="checkbox"/> Model 8 (RM-MD) <input type="checkbox"/> Not Support |
| Note | All the screen shots in this documentation are only example images. The images may vary depending on the product and software version. |

Chapter 2 Interface Overview

2.1 Introduction

Now, with this product, you can watch TV, listen to the radio, record your favorite programs and enjoy other features on your PC. Turn your computer system into a real multimedia entertainment center.

You'll never miss your favorite ball games, soaps or game shows anymore because the TimeShift function performs background recording of a TV program. This means you can return and watch from the part of the program where you left off.

To enjoy high quality TV or radio programs, *AVerMedia*[®] product is your best choice.

Please be noted that the functions or the remote control mentioned in this manual may vary depending on the product you purchase and the area you live. You can get the most updated AP and driver from AVerMedia website: <http://www.avermedia.com/avertv>.

2.1.1 Launching the AVerTV 3D Application

To activate the application from Windows Programs menu

- Go to **Start > AVerTV 3D**.

or

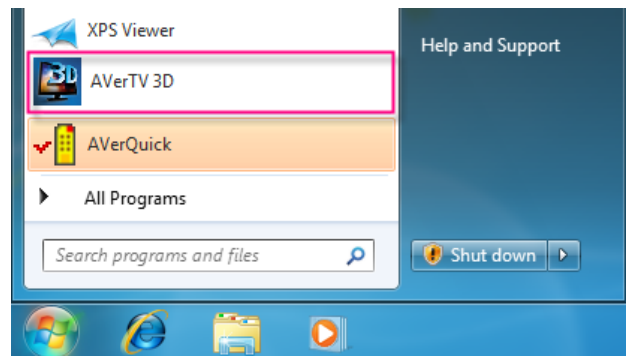
- Double click the **AVerTV 3D** icon  on your desktop.

or

- Go to **Start > Programs > AVerMedia > AVerTV 3D > AVerTV 3D**.

or

- Double-click the **AVerQuick** launcher located at the lower right corner of the screen. Then go to **Setting > Application > AVerTV 3D**.



AVerQuick allows setting the desired default application, which means you can choose either AVerTV 3D or AVer MediaCenter as the default application when double clicking **AVerQuick** icon

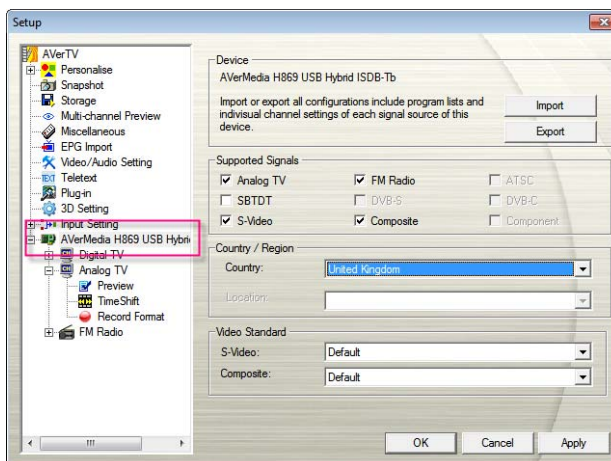


2.1.2 Activating the AVerTV 3D Application for the First Time


If this is your first time running the application, the **Setup** dialog box will appear to prompt you to scan for channels.

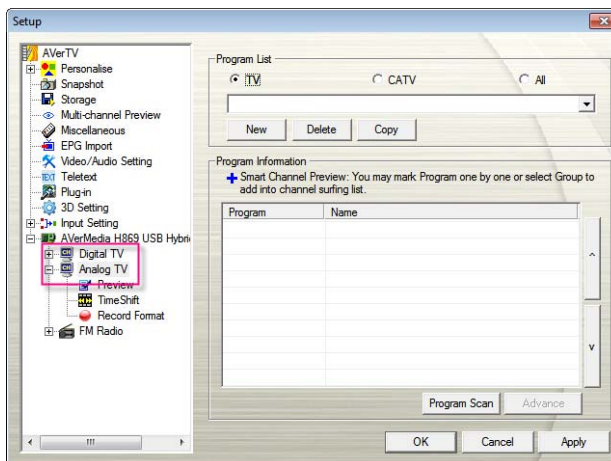
To scan channels

1. Select an available AVerMedia device in the left pane.
2. Select the correct **Country/Region**.

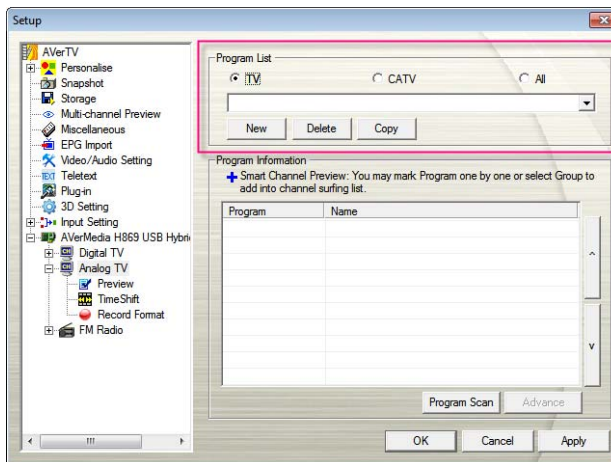


3. Select your desired signal input (digital TV, analog TV or Radio) on the left pane.

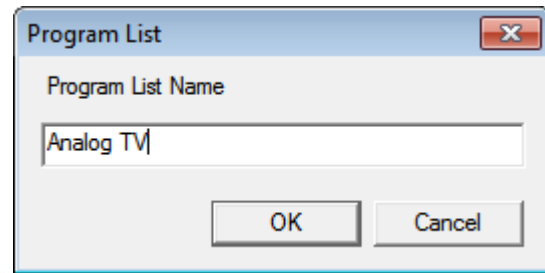
 Before choosing the signal input, please make sure that your country/region is correct. For more information, please refer to **Scanning Channels**.



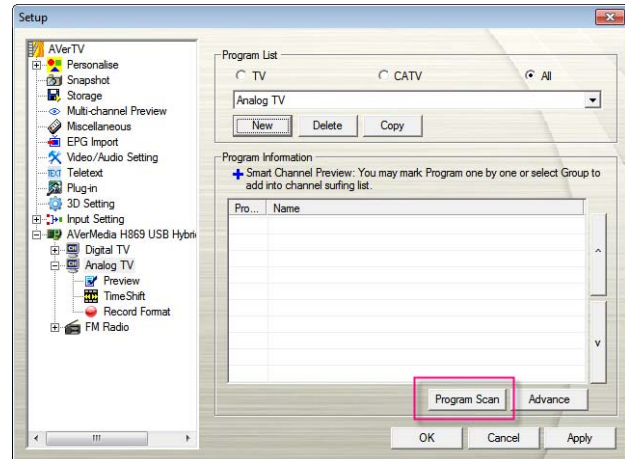
4. Select the **TV** option to search for air channels, or select **CATV** to scan for cable channels if your choice is **Analog TV** in step 1.




5. Click **New** and the **Program List** dialog box appears. Type in the desirable name and click **OK**.



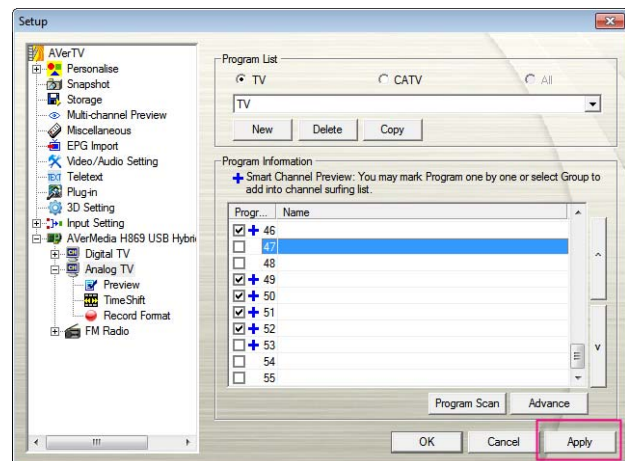
6. Click **Program Scan** to search for available channels/programs in your area.



7. After scanning, the active TV channels will be listed inside the box.

 *Digital channels that are in red text indicate they are locked channels (e.g. Adult channels).*

8. Click **Apply** to save the scanned channels.
9. To exit the current dialog box, click **OK**.



For details, please refer to the section **Scanning Channels**.

2.1.3 TV monitor


The **TV monitor** allows you to watch live TV or video.

The TV monitor in default simple mode only shows a few main buttons. Click and drag the **Resize Window** icon at the lower right corner of the TV monitor to enlarge it and see all buttons.

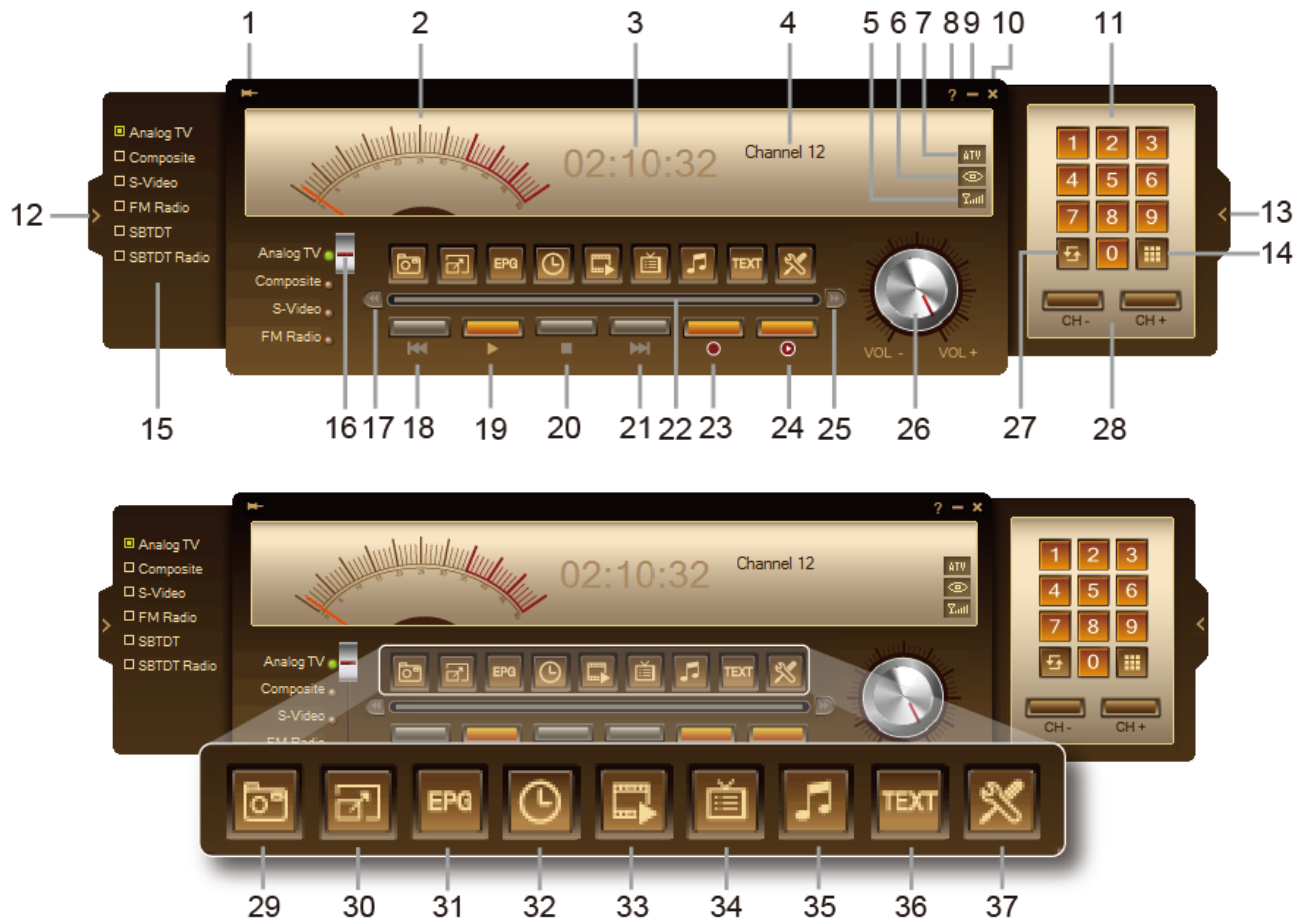


| | | | |
|---|-------------------------|----|----------------|
| 1 | Show / Hide Video Frame | 10 | TimeShift |
| 2 | Minimize | 11 | Channel Down |
| 3 | Full Screen | 12 | Channel Up |
| 4 | Exit | 13 | Volume Down |
| 5 | Previous File | 14 | Volume Up |
| 6 | Play / Pause | 15 | Real 3D |
| 7 | Stop | 16 | see3D |
| 8 | Next File | 17 | Panel On / Off |
| 9 | Record | 18 | Resize Window |





The **Control Panel** provides button controls for selecting channels, adjusting volume, capturing images, and more. It has a panel display that shows the current channel number and channel name.

To display or hide the **Control Panel**, click the button  located at the lower right corner of the TV Monitor.

2.1.4 Control Panel



| | BUTTON | FUNCTION |
|---|------------------|---|
| 1 | Always on Top | Make the TV monitor float over the top of other program windows. |
| 2 | Spectrum Display | Display spectrum analyze by dashboard |
| 3 | Time Display | Display time |
| 4 | Channel Display | Display and switch channels. Right click on the channel display area of the control panel to select channels. |
| 5 | Signal Strength | Display signal strength. |

| | | |
|----|------------------------------------|---|
| 6 | Mode Display | <p>Display the mode in use.</p> <p> Preview</p> <p> TimeShift</p> <p> Playback</p> <p> Record</p> |
| 7 | Signal Status / Repeat Play Status | <p>TV/Radio mode: Right click on the info icon on the control panel to switch signal sources.</p> <p>Playback mode: Right click on the repeat icon on the control panel to enable the repeat function. The system will continuously playback the files in the playlist.</p> |
| 8 | Help | View User's Manual. |
| 9 | Minimize | Minimize the TV monitor. |
| 10 | Exit | Exit the TV monitor. |
| 11 | Numeric Buttons | Select channels/programs. |
| 12 | Show/ Hide Source Panel | Toggle between displaying and hiding the source panel. |
| 13 | Show/ Hide Numeric Panel | Toggle between displaying and hiding the numeric panel. |
| 14 | Multi-Channel Preview | Display 4 ~ 64 consecutive TV channels on the TV Monitor window. (By default, 16 TV channels will be displayed.) |
| 15 | Signal Panel | Display all available sources of the device. |
| 16 | Signal Switch | Change Video Source. Switch between analog TV, digital TV, or S-video, etc. |
| 17 | Backward | Move backwards |
| 18 | Previous File | Play the previous file in the playlist. |
| 19 | Play / Pause | Playback recorded video files. / Freeze the playback. |
| 20 | Stop | Stop the playback, recording, TimeShift, etc. |
| 21 | Next File | Play the next file in the playlist. |
| 22 | Playback Seek Slider | Drag the slider tab to move to any part of the recorded TV program. |
| 23 | Record | Record the current TV show. |
| 24 | TimeShift / Pause | Performs background recording of the live TV program. This function lets you view the recorded parts, while at the same time, recording is in progress. / Freeze the playback. |
| 25 | Forward | Skip forward |
| 26 | Volume Control | Increase/decrease the volume level. |
| 27 | Channel Loop | Return to previously accessed channel. |

| | | |
|----|------------------|--|
| 28 | Channel Up/ Down | Switch to the previous or the next channel. |
| 29 | Snapshot | Capture a single image or a sequence of images. |
| 30 | Full Screen | Show TV/Video programs in full screen. |
| 31 | EPG | View EPG information (digital TV/analog TV with available EPG data). |
| 32 | Scheduler | Display Scheduler dialog box. |
| 33 | Play List | Create a playlist of video files to playback. |
| 34 | Program List | Display the program list and adjust color, volume and so on. |
| 35 | Audio Mode | Switch between available audio modes. |
| 36 | Teletext | View Teletext (PAL/SECAM) / Closed Caption (NTSC) information. |
| 37 | Setup | <p>Allows you to:</p> <ul style="list-style-type: none"> *Autoscan channels. *Import analog EPG. *Customize the OSD settings. *Configure the Multi-Channel Preview settings. *Configure the Input Remapping settings. *Configure snapshot settings. *Customize record settings. *Customize the TimeShift function. |

2.1.5 Resizing the TV Monitor Window

To enlarge or reduce the size of the TV Monitor window

- Click and drag the lower right corner of the window.



To enter the full screen mode

- Double-click the TV Monitor window to display it in full screen.

or

- Click the **Full Screen** button  on the Control Panel.

To exit full screen mode

- Double-click anywhere on the screen to revert to the default TV Monitor window size.

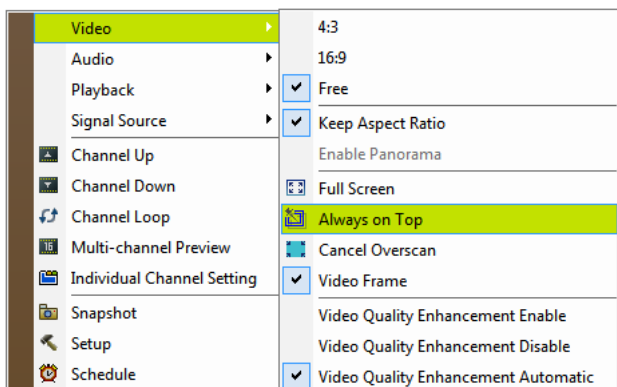
2.1.6 Always on Top

To make the TV monitor window float over the top of other program windows

- Right-click on the TV monitor, and point to **Video > Always on Top**.


or

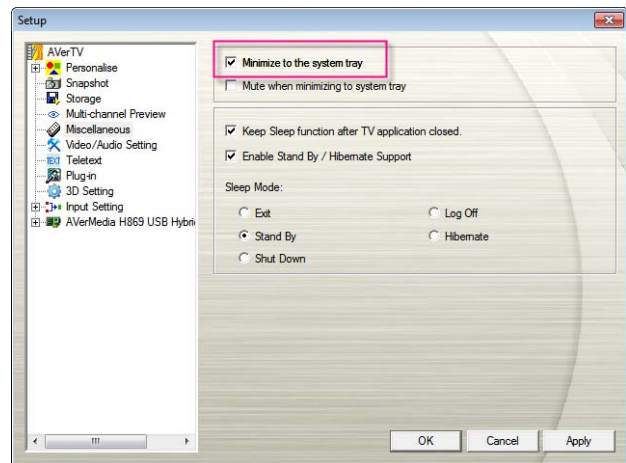
- Click the **Always on Top** button  on the Control Panel.



2.1.7 Minimizing the Application

To minimize AVerTV 3D application to the system tray (notification area)

1. Click the **Setup** button  and select **Setup > Miscellaneous** icon on the left pane.
2. Then select the **To minimize application to the system tray** check box.
3. Clear the check box to simply minimize the application to a taskbar button.



Chapter 3 Basic Operations


3.1 Watching TV

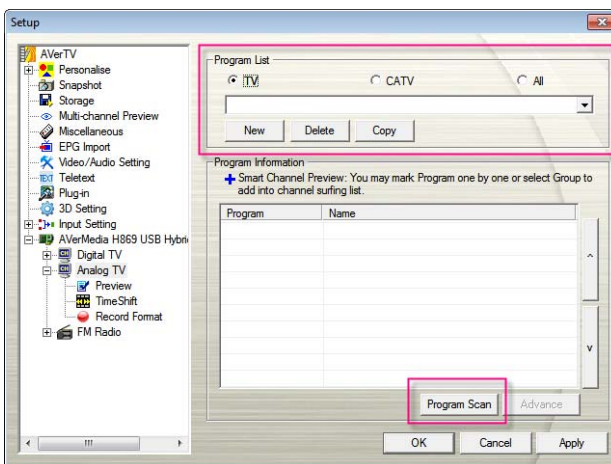
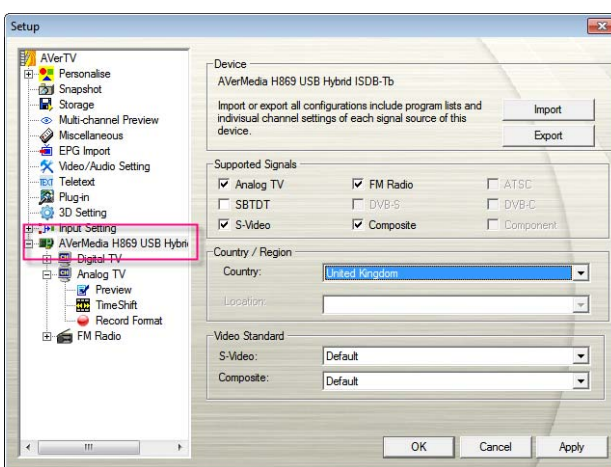
To watch TV, please first make sure you select the correct **Country/Region**, and scan the channels. What you can watch depends on the product you purchase and the TV signals available from your local television service providers.

3.1.1 Scanning Channels

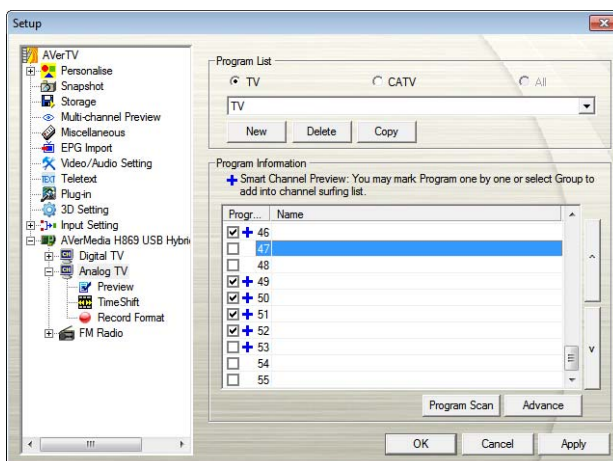
If you do not complete the channel scanning when you first run the application, please follow these steps to complete this procedure.

To scan channels

1. Click the **Setup** button  on the control panel and select **Setup**. Choose an available AVerMedia device in the left pane.
2. Select the correct **Country/Region** from the drop-down menu.
3. Select your desired signal input (Digital TV / Analog TV) on the left pane.
4. Select the **TV** option to search only for air channel, select **CATV** to scan for cable channels or choose **All** option to scan for both air channel and cable channels.
5. Click **New** and the **Program List** dialog box appears. Type in the desirable name and click **OK**.
6. Then click **Program Scan** to start the scanning process.
The application comes with a default frequency table therefore the application will use this table to search for active channels/programs. If you want to terminate the searching process, just click **Stop**.



7. You can check the scanning progress from the progress bar. After scanning, the active TV channels will be listed inside the box. Click **Apply** to save the scanned channels.



Digital Channels that are in red text indicate they are locked channels (eg. Adult channels).

3.1.2 Adjusting Volume



- On the Control Panel, click and drag your mouse over the **Volume** knob to increase or decrease the volume level. You can also press the + / – keys on the numeric keypad to adjust the volume.





or

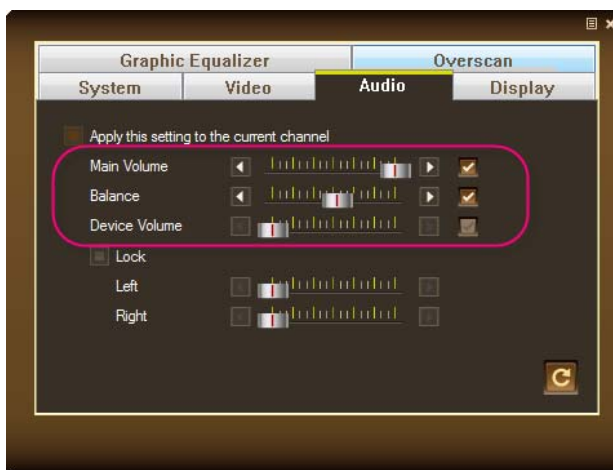




1. Right click on the TV monitor. When a pop-up menu appears, select **Individual Channel Setting**.

or

Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .


2. When a dialog box appears, select **Audio** tab.
3. Use  and  or drag the slider bar to adjust the system volume, the audio balance or the device volume.
4. By default, the right and left volume levels are the same. If you want to adjust right and left volume individually, clear the **Lock** check box and use  and  to adjust the volume.




5. If you just want to adjust individual volume level, select **Apply this setting to the current channel** and repeat Step 3 to increase or decrease volume.
6. To apply the converted settings to all channels, click **Apply All** .
7. Click **Default** button  if you want to revert the factory settings.

3.1.3 Selecting a TV Channel

There are three ways of switching between TV channels:

1. Click the **Program List** button  on the control panel.

or

Click the **Program List** button  on the control panel.
2. Click the **Channel Up/Down** buttons (on the TV monitor window or on the Control Panel) repeatedly until reaching your desired channel.

or

Click on the Numeric buttons to get your desired channel number.

or

Right-click the Channel Display area on the control panel to select the desired channel.




| Pro... | Name |
|--------|------|
| 01.01 | TV2 |
| 01.02 | TV1 |
| 01.03 | DIMO |
| 06.01 | TBS1 |
| 06.02 | TBS |
| 06.03 | TBS2 |
| 11.01 | CTS |
| 11.02 | BBC |
| 11.03 | CNN |
| | |
| | |
| | |
| | |
| | |

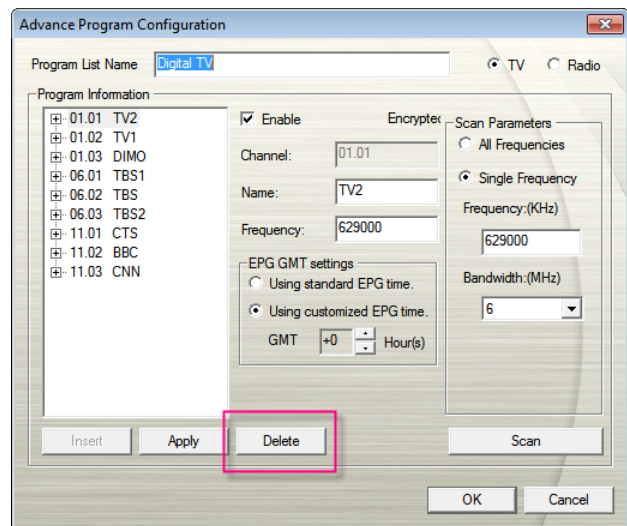
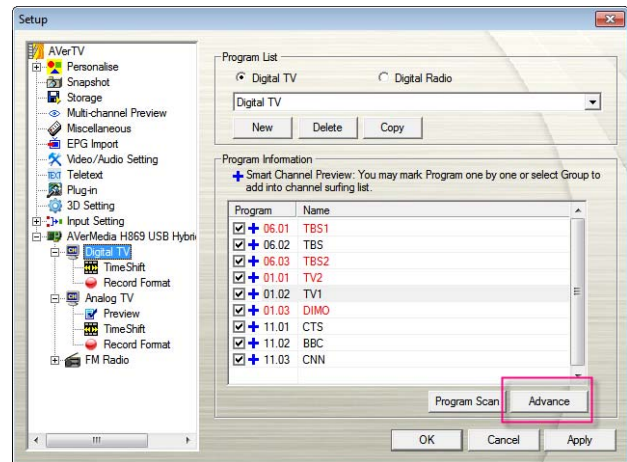


Locked channels (e.g. Adult channel) are in red text.

3.1.4 Removing Unwanted Channels

To exclude unwanted channels from your channel list


1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Click **Advance**. Then the **Advance Program Configuration** dialog box will appear.
3. In the **Program Information** section, select the unwanted channel and then click **Delete**. This channel will be removed and that means you won't be able to access these programs anymore.

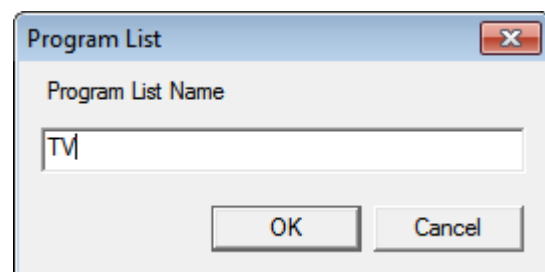


3.1.5 Adding and Deleting Program Lists

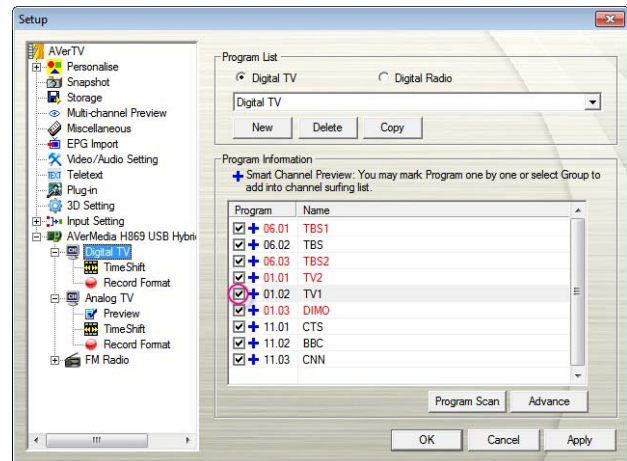
A program list allows you to switch only among the selected channels when pressing the **Channel Up/Down** button.

To add a new program list

1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Click **New** and the **Program List** dialog box appears.
3. Type in a program list name and click **OK**.



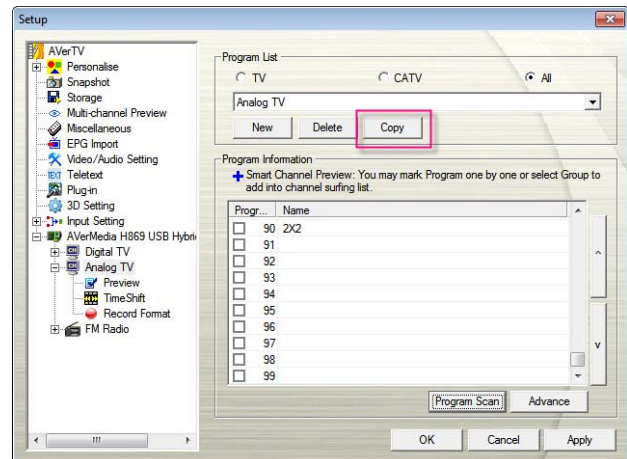
4. Click **Program Scan** and click **Yes** to continue the scanning process.
5. Available channels will then be listed in the **Program Information** and now you can delete the unwanted programs by clearing the check box.
6. Click **Apply** to save the setting and click **OK** to exit the current dialog box. Or you can click **Cancel** to abort without saving.




If you don't want to scan programs every time creating a new program list, you can use **Copy** function.

To use Program List Copy function

1. From the program drop-down menu, select the program list that you want to duplicate.
2. Click **Copy** and the *Program List* dialog box will appear.
3. Type in desired name and click **OK**.
4. Finally, just like the steps described above, clear the check mark next to the unwanted channels.




To delete a program list


1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. From the program drop-down list, select the name of the group that you want to remove.
3. Click **Delete** to remove the selected program list.

3.1.6 Specifying a Channel Name or Description

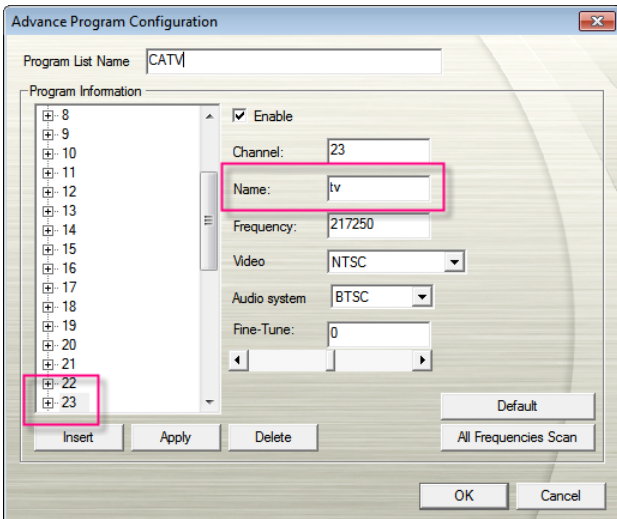
To assign a channel name or specify a description

1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Under the **Name** column, double-click the text box of the channel you want to assign a name or description.
3. Type in the channel name or description, and then press **Enter**.

or

1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Click **Advance**.
3. Select the channel/program you want to assign a name or description.
4. In the **Name** text box, type in the desired name or description. Press **Apply** to save the settings and click **OK** to exit the dialog box. Or you can press **Cancel** to abort without saving.


| Program | Name |
|---|------|
| <input checked="" type="checkbox"/> + 01.01 | TV2 |
| <input checked="" type="checkbox"/> + 01.02 | TV1 |
| <input checked="" type="checkbox"/> 01.03 | DIMO |
| <input checked="" type="checkbox"/> 06.01 | TBS1 |
| <input checked="" type="checkbox"/> + 06.02 | TBS |
| <input checked="" type="checkbox"/> 06.03 | TBS2 |
| <input checked="" type="checkbox"/> + 11.01 | CTS |
| <input checked="" type="checkbox"/> + 11.02 | BBC |
| <input checked="" type="checkbox"/> + 11.03 | CNN |

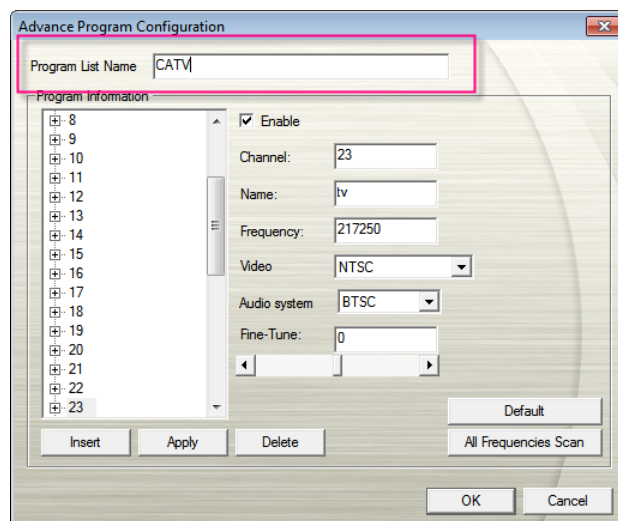


The dialog box titled "Advance Program Configuration" shows the "Program List Name" as "CATV". Under "Program Information", a list of channels from 8 to 23 is shown on the left, with channels 22 and 23 highlighted. On the right, the "Name" field is highlighted and contains the text "tv". Other fields include "Channel" (23), "Frequency" (217250), "Video" (NTSC), and "Audio system" (BTSC). Buttons at the bottom include "Insert", "Apply", "Delete", "Default", "All Frequencies Scan", "OK", and "Cancel".

3.1.7 Modifying a Program List Name

To rename a program list

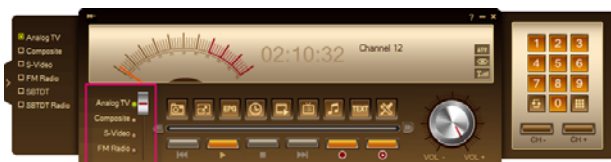
1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Click **Advance**.
3. Type the desired name in the **Program List Name** text box.
4. Press **Apply** to save the setting and click **OK** to exit the dialog box. Or press **Cancel** to abort the saving.



3.1.8 Changing Signal Source

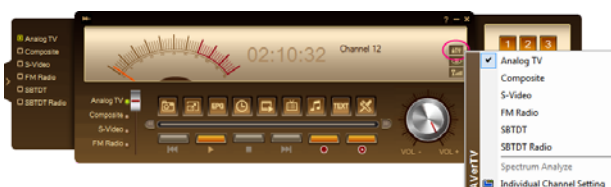
To change signal source

1. Click and drag the **Source Switch** on the control panel.
2. The **Source Switch** lists the latest four signal sources you select. For more available signal sources options, click and open the **Source Panel** and select the desired signal source.



or

- Right click on the Signal Status icon on the control panel and a pop-up menu appears. Select the desired signal source.

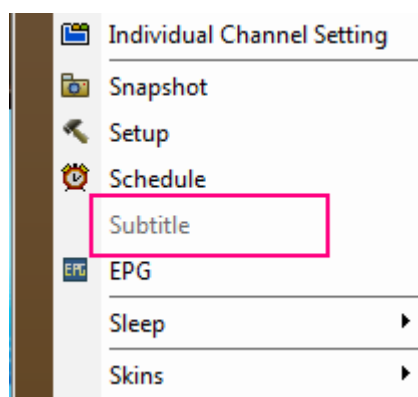


3.1.9 Enabling Subtitle Function

If your local broadcasters provide subtitle service, you can view those texts.



To enable subtitle

1. Right click the TV screen. In the pop-up menu, point to **Subtitle** and choose the desired language.
2. To hide the subtitle, please right click the TV screen, point to **Cancel Subtitle** and choose **Exit**.




3.1.10 Creating Channel Groups





To add a new channel group

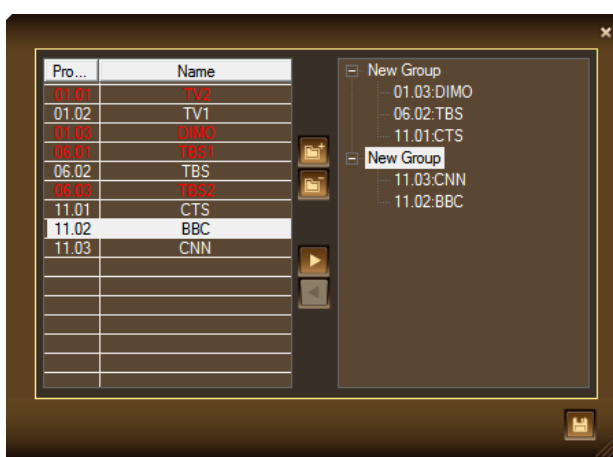
3. Click the **Program List** button  on the control panel. Select **Program Group**. Then click the **Setup** button .

or

Click the **Program List** button  on the control panel. Select **Program Group Setting**.




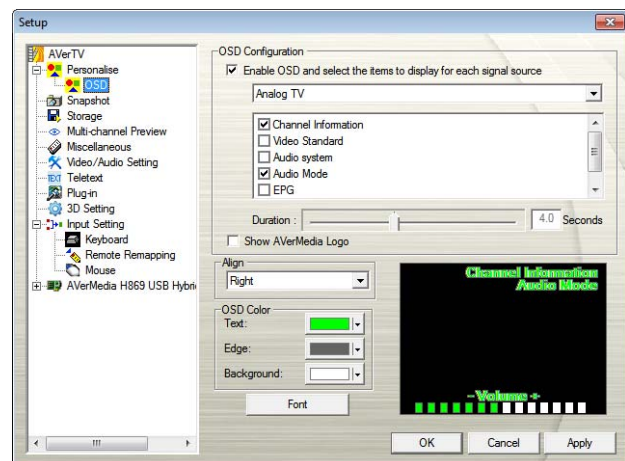
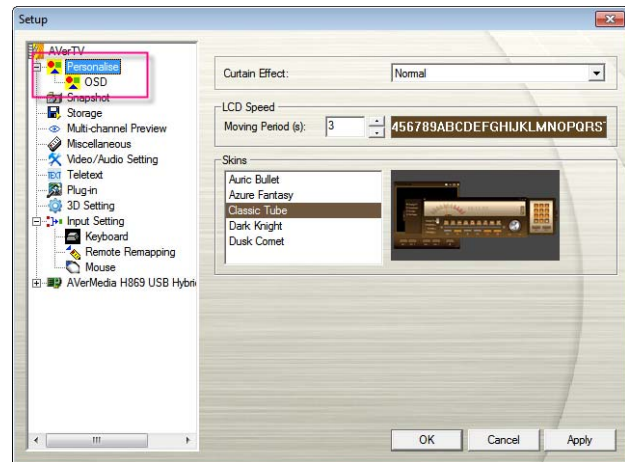
4. When a dialog box appears, click **New** button .
5. Specify the desired name in the text box.
6. Hold down Shift or Ctrl key and click the channels from the list to select your own channel line up, then click  to add your selection to the desired group. Or drag the selected channels and drop them to the desired group.
7. Click **Save**  to save the settings or click **Cancel**  to abort without saving. If you want to delete the unwanted group, simply click **Delete**.



3.1.11 Changing the OSD Attributes







To change the OSD attribute

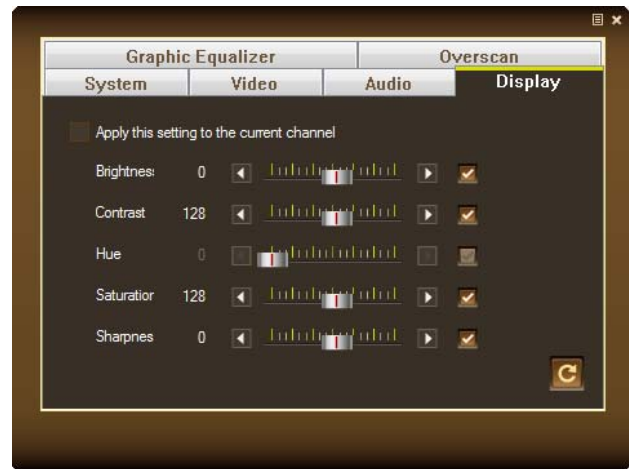
1. Click the **Setup** button  and select **Setup > Personalise**.
2. On this page, you can customize **Curtain Effect** (Fade In/Fade Out), set the speed of marquee (**LCD Speed**), and change the appearance of the TV monitor and the control panel (**Skins**).
3. Then select **OSD** on the left pane.
4. On this page, you can choose the TV system from the drop-down menu for different display information on the TV monitor. You can also adjust OSD color (Text, Edge, Background).
5. Click **Apply** to save settings or click **Cancel** to abort without settings.



3.1.12 Fine Tuning Color of the Display

To adjust the color or picture quality of the TV display

1. Right click on the TV monitor. When a pop-up menu appears, select **Individual Channel Setting**.
or
Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .
2. When a dialog box appears, select **Display** tab.
3. Then use  ,  or the slider to adjust **Brightness**, **Contrast**, **Hue**, **Saturation** and **Sharpness** until you get an accurate color.
4. If you just want to adjust color of one specific channel, select **Apply this setting to the current channel** and repeat step 3. To apply the converted settings to all channels, click **Apply All** button .
5. Click Default button  if you want to revert to the factory settings.






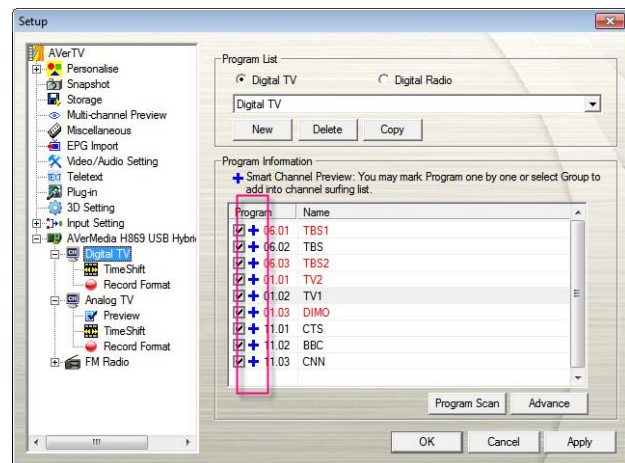
3.1.13 Multi-Channel Preview



The multi-channel preview function can display 4~64 TV channels on-screen at the same time. (By default, 16 TV channels will be displayed.) You can see clearly which TV programs are currently showing on these channels.

To select the channels for preview

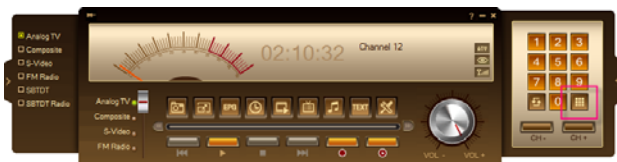
1. Click the **Setup** button  and select **Setup**. Then choose an available AVerMedia device on the left pane.
2. Then select your desired signal input.
3. On this page, you can choose the channels for preview by clicking and adding  beside the check box. Clear  if you want to delete the channels from the preview channel list.




To preview the channels:

1. Click the **Multi-Channel Preview** button.

The screen will be gradually filled up with TV channels, starting from the currently selected channel.




 By default, 16 TV channels will be displayed. To modify the preview cell numbers, please refer to the section **To modify the preview setting** on the next page.

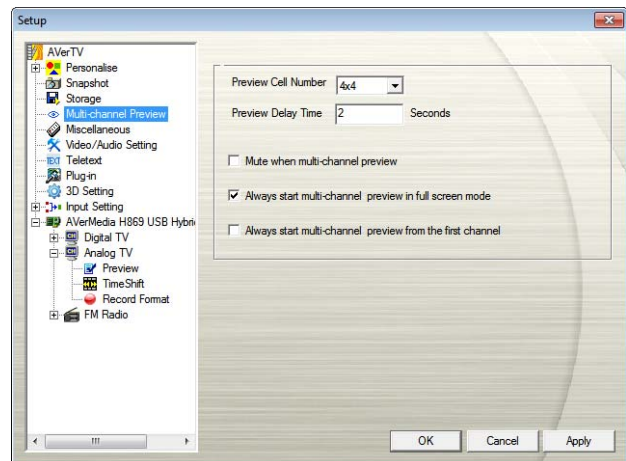
2. Select a channel and press the numeric button "5" on the remote control to view it only and freeze the other channels. If you want to continue to display other channels just press **C** letter on the keyboard.

To leave Multi-Channel Preview mode and display a channel on the TV Monitor window


- Select any one of the channels on-screen and double-click on that channel.
or
Use the arrow buttons of your keyboard and then press **Enter**.
You will then be tuned in to that channel.
- or
- Click the right mouse button or press **ESC** to return to the originally selected TV channel.


To modify the Multi-Channel Preview settings

1. Click the Setup button  and select **Setup > Multi-Channel Preview**.
2. Here you can determine preview cell numbers from the drop-down menu (2x2~8x8).
3. You can also specify the preview delay time (1~99 sec) in the text box.
4. Select the check box if you want to mute the audio when previewing channels, always start multi-channel preview in full screen mode, or always start multi-channel preview from the first channel.

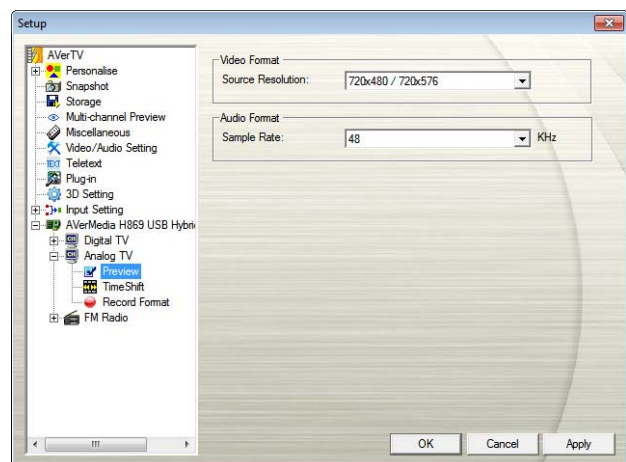


To select Source Resolution and Sample Rate

1. Click the **Setup** button  and select **Setup**. Then choose an available AVerMedia device in the left pane.
2. Then click your desired signal input on the left pane and select **Preview**.
3. Here you can select **Video Format** and **Audio Format** from the drop-down menu.

 Basically the higher source resolution and sample rate you have, the better visual and audio quality you get; however, it may consume larger amounts of CPU resources. Please adjust it based on your PC hardware.

4. Click **Apply** to save the setting and click **OK** to exit the current dialog box.




3.2 EPG (Electronic Program Guide)

3.2.1 Digital EPG

Electronic Program Guide (EPG) is a service that allows you to check the next succeeding program schedule and even the program schedules of the whole week. If the EPG service is provided in your region/country, you can use the EPG function of AVerTV 3D.

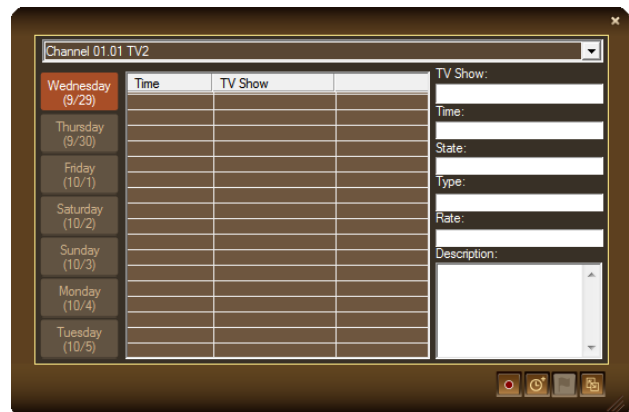
To open the EPG window

1. Click the **EPG** button  on the control panel.

or




Right click on the TV monitor and select **EPG**.

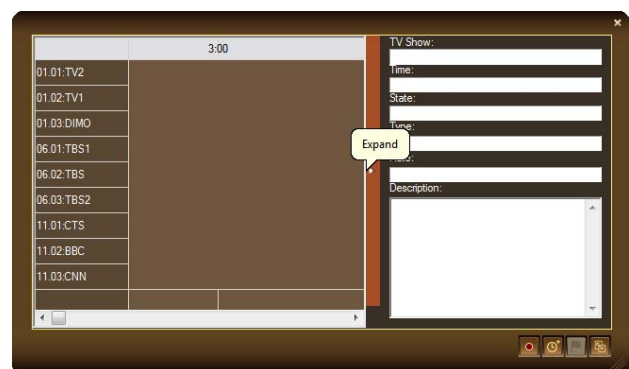
2. In the EPG window, select the desired program from the Program drop-down menu and the EPG window will display the schedule for one week. You can also see the related information such as program name, time, and description about the program on the right pane of the window.
3. In addition, when switching channels, the TV screen can show the current and succeeding program information.




Our **EPG** window also allows you to preset a schedule for watching or recording programs.

To preset a schedule from EPG

1. Open EPG window.
2. Select your favorite programs
 - Then click **Record**  or **Activate TV Application**  to activate AVerTV 3D. And the system will execute your command on schedule.
 - If the EPG data contains multiple languages, you can click  to switch EPG language. For non-multi-language EPG data, this function will be disabled.
 - Click **Display Mode**  to sort the EPG list by time or by channel.

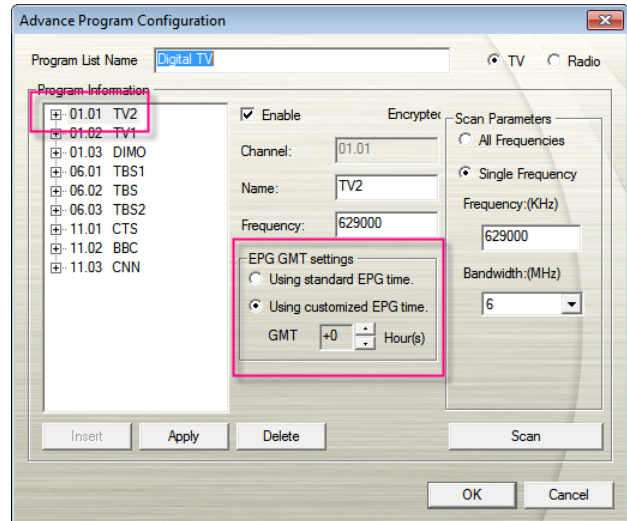


To use EPG function, please make sure that the EPG GMT settings is correct.

1. Click  on the control panel and select **Setup**.
2. Click **Digital TV** on the left pane.
3. Click **Advance**.
4. In the **Advance Program Configuration** window, click the desired channel.
5. In the **EPG GMT settings** section, select **Using customized EPG time** to adjust the EPG time according to local time.

or

Select **Using standard EPG time** to adjust the EPG time according to Greenwich Mean Time.





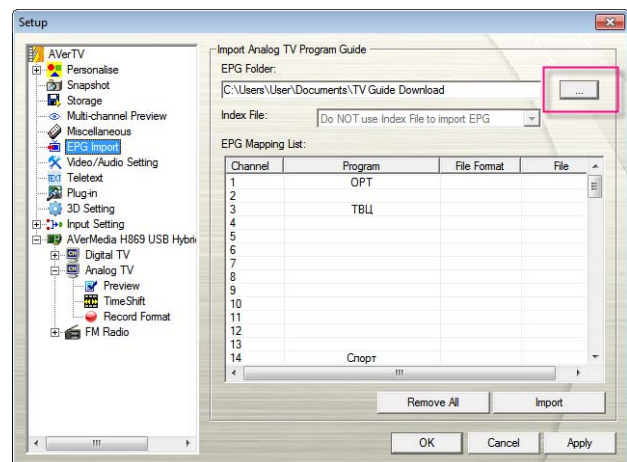
3.2.2 Analog EPG Import (by country/region)

Electronic Program Guide (EPG) is a service that allows you to check the next succeeding program schedule and even the program schedules of the whole week.

For Analog TV, the EPG needs to be imported manually.

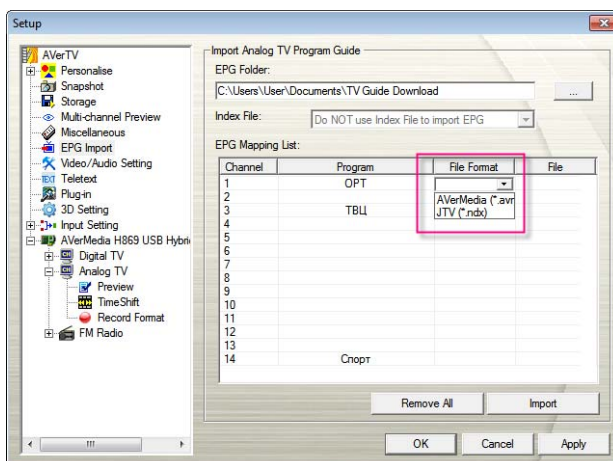
To import analog EPG for the first time

1. If the EPG service is provided in your region/country, go to the TV website of your region/country, and download the EPG files (*.ndx, *.pdt, *.avr).
2. Click the **Setup** button  and select **Setup**. Then click on the **Analog EPG Import** icon on the left pane.
3. Click  to choose the designated folder in which the EPG files (.ndx or .avr) are saved.



4. Then double click on the space under **File Format** to select the file format (.ndx or .avr) from the drop-down menu.

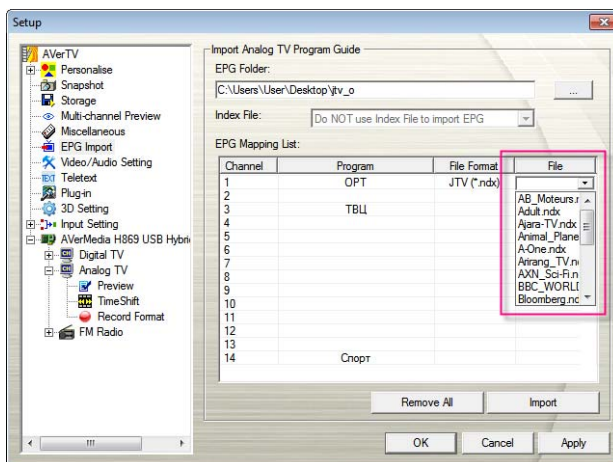
📌 *JTV format EPG TV guide (*.ndx and *.pdt) can be found at <http://www.teleweb.ru>.*



5. Then double click on the space below **File** to choose the designated file to insert.

📌 *Each file refers to the TV programs of one channel.*

6. Click **Import** button to complete EPG import.
7. Then click **Apply** to save the imported EPG.

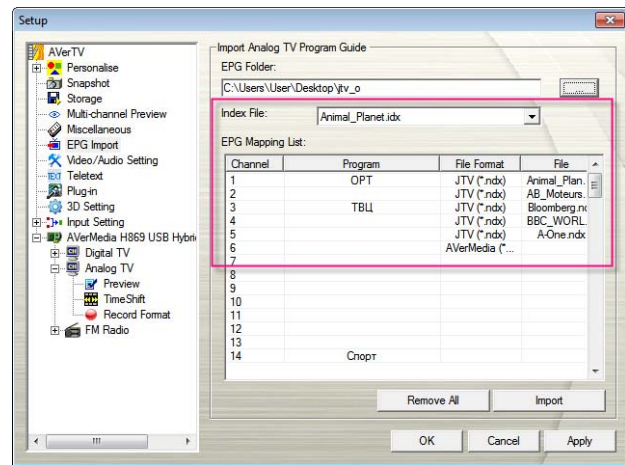


*After importing analog EPG for the first time, the channels you've chosen to import will be saved and listed in the EPG Mapping List. However, you still need to click on **Import** button to update and get the latest EPG information.*

If you have the Index File, the **Index File** drop-down menu will be available for your selection.

To import the Index file

1. First you must have the EPG Index File (*.idx) and the EPG files (*.ndx, *.pdt, *.avr).
2. Then put the index files and EPG files in the same folder.
3. Choose the index file from the drop-down menu. Once you select the index file, you will see the EPG data of the index file in the EPG Mapping List.
4. Click **Apply** to save the imported EPG.



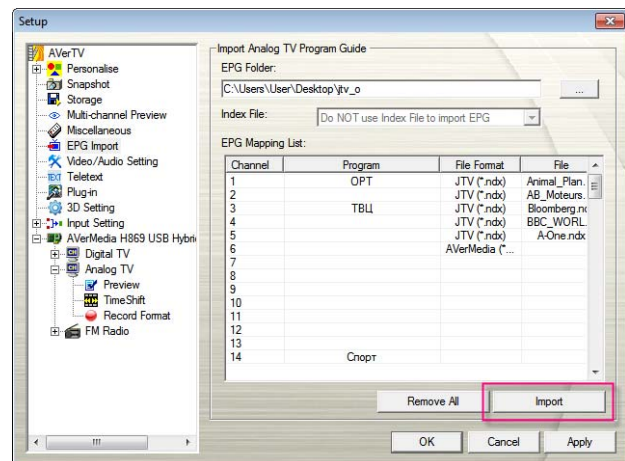
1. The Index file format (.idx) can be edited by users. For more information, please refer to **Appendix**.



2. After you import the index file, you can still add more EPG files (*.ndx, *.pdt, *.avr) in the EPG Mapping List. After clicking the **Apply** button, all EPG files will be saved in the index you have chosen.

To update the imported analog EPG

Simply click on the **Import** button again on the same page for the latest analog EPG information.




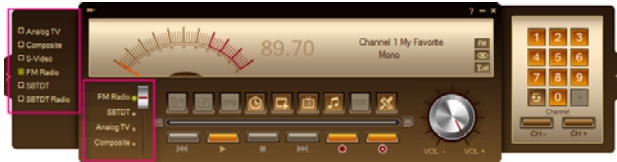
3.3 Radio

3.3.1 Radio Controls

To listen to the radio

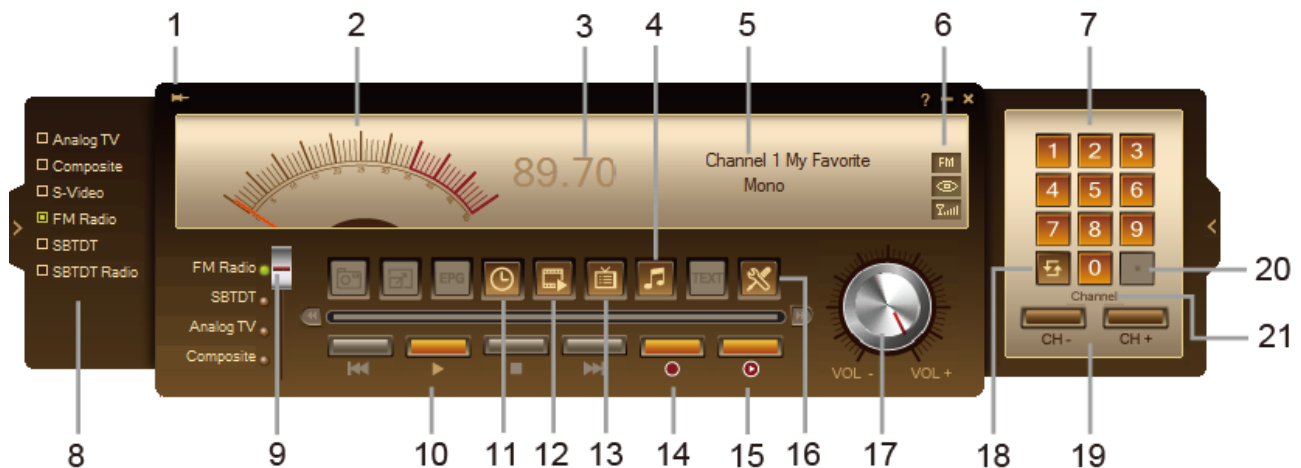
- Switch to the **Radio** mode on the control panel to listen to your favorite radio station programs.

 Please scan channels first before using radio controls.



Use the following button controls for selecting Radio channels, adjusting volume, scanning FM channels, recording radio programs and more.

To change back to live TV, click the **Radio Source** button.




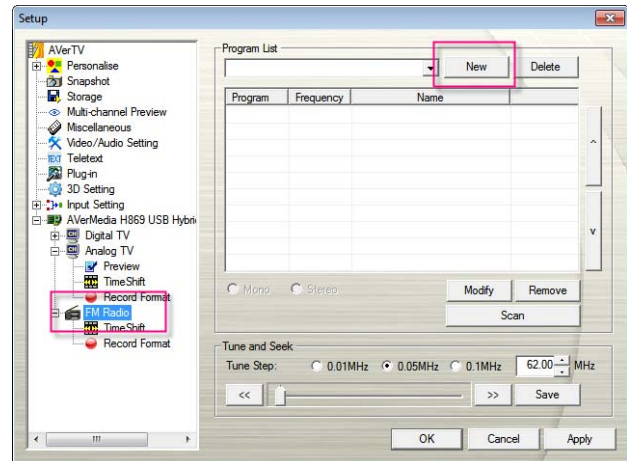
| | | | |
|-----|--------------------|-----|---|
| 1. | Always On Top | 12. | Play List Program Group Program Group Setting |
| 2. | Spectrum Dashboard | 13. | Program List |
| 3. | Frequency Display | 14. | Record |
| 4. | Audio Mode | 15. | TimeShift / Pause |
| 5. | Channel Display | 16. | Setup Individual Channel Setting |
| 6. | Status Info | 17. | Volume Control |
| 7. | Numeric Buttons | 18. | Channel Loop |
| 8. | Source Panel | 19. | Channel Up/Down |
| 9. | Source Switch | 20. | Dot (Frequency Input Mode) |
| 10. | Play / Pause | 21. | Switch to Channel /Frequency Input Mode |
| 11. | Schedule | | |

3.3.2 Auto Scanning Radio Channels


If this is your first time to use Radio, perform auto scan to search and memorize active Radio stations in your area.

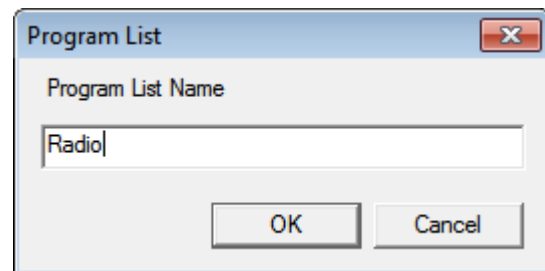
To auto scan Radio stations

1. Click the **Setup** button  and select **Setup**. Then choose an available AVerMedia device in the left pane.
2. Then select **Radio**.

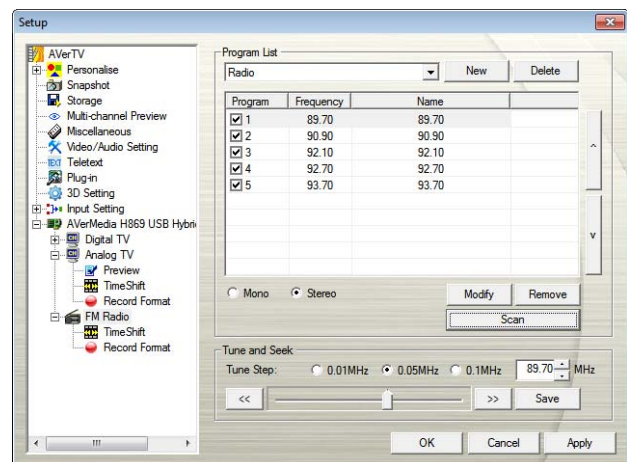


3. Click **New** and the *Program List* dialog box will appear. Type in the desirable name and click **OK**.

 For Russian users, clicking New to create a program list before scanning is a prerequisite step.



4. Click **Scan**. All active channels will be automatically scanned and memorized.
5. To terminate the scanning, click **Stop**.
6. Click **Apply** to save the setting and click **OK** to exit the current dialog box. Click **Cancel** to abort without saving.

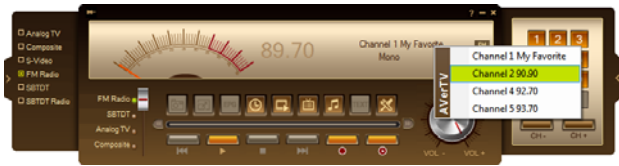


The application comes with a built-in FM frequency table for the country Russia. To use the Russian frequency table, simply select Moscow or St. Petersburg from the Group drop-down menu.



3.3.3 Selecting a Radio Channel

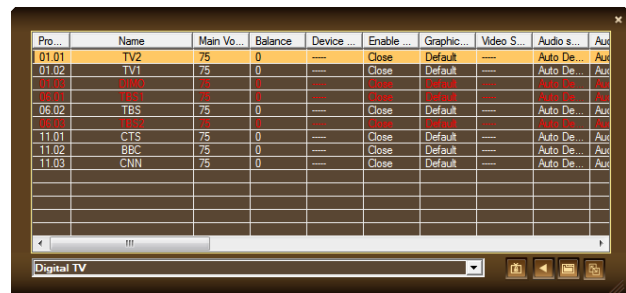
To select a channel

- Click on the **Numeric buttons** to select a channel.
- Click the **Channel Up/Down** button repeatedly until reaching your desired channel.
- Right click on the channel name on the info display area, the pop-up channel list will appear for users to select a channel.



or


- Use the **numeric keys** on your keyboard to select a channel.
- Click the Program List button . When the Program Panel appears, select the Display Mode button . Choose the desired program list from the drop-down menu and then double-click on the desired channel.

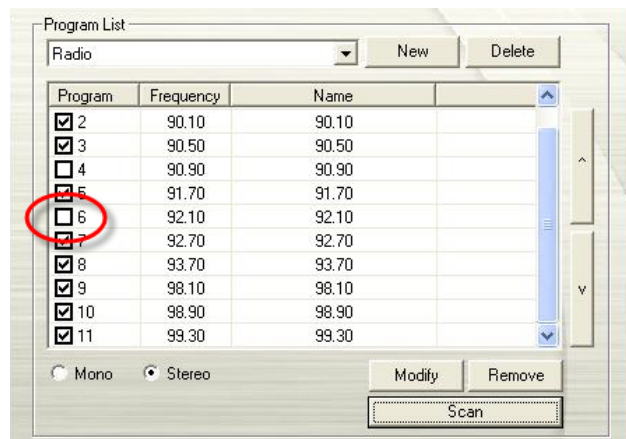


Locked channels (eg. Adult channel) are in red text.

3.3.4 Skipping Unwanted Radio Channels

To exclude undesirable channels from your FM channel list

1. Click the **Setup** button  and select **Setup > Radio** icon on the left pane.
2. In the **Program** column, click the unwanted channel. The check mark will be removed, indicating that the channel will be excluded from your channel list and that you won't be able to access and hear them through the **Channel Up/Down** button.



3.3.5 Adjusting Radio Volume







To increase or decrease the volume level

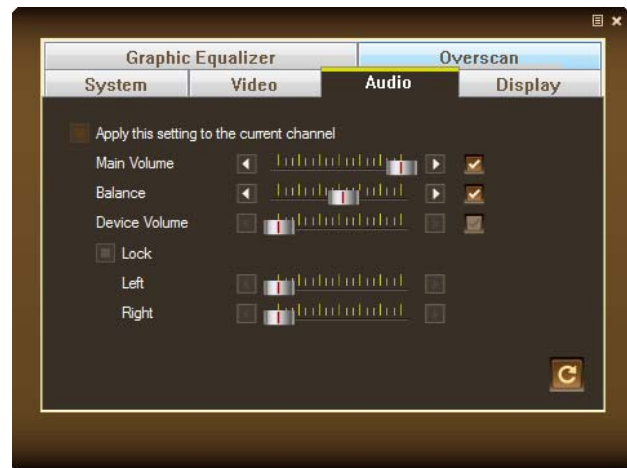
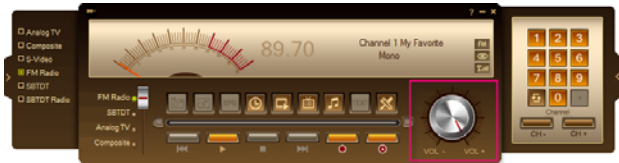
- Click and drag your mouse over the **Volume** knob on the control panel.

or

- Press the + / – keys on the numeric keypad to adjust the volume.


or

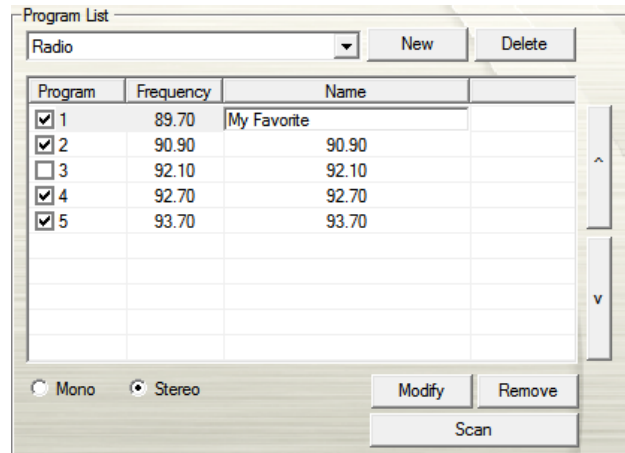
- Right click on the TV monitor. When a pop-up menu appears, select **Individual Channel Setting**. Or click **Program List** button  on the control panel and then click **Individual Channel Setting** button .
- When a dialog box appears, select **Audio** tab.
- Use  and  to adjust the system volume or the device volume.
- If you just want to adjust individual volume level, select **Apply this setting to the current channel** and repeat step 3 to increase or decrease volume.
- To apply the converted settings to all channels, click **Apply All** button .
- Click **Default** button  if you want to revert the factory settings.



3.3.6 Modifying a Radio Name

You can manually modify any existing Radio channel.


1. Click the **Setup** button  and select **Setup > Radio**.
2. Double click on **Name** column of the existing FM channel which you want to modify.
3. Enter the name or description you want in the provided text box and then press **Enter**.
4. To modify more channels, repeat step 2 to 3.
5. Click **Apply** to save the setting and click **OK** to exit the current dialog box.

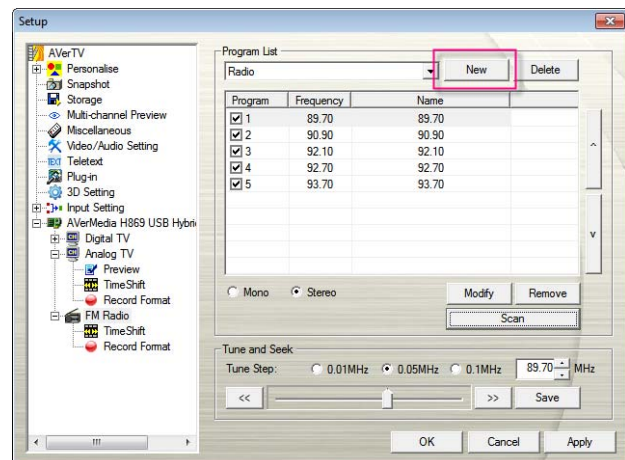


3.3.7 Adding and Deleting Radio Program Lists


Selecting a program list allows you to switch between the channels of the selected program list only when pressing the **Channel Up/Down** button.

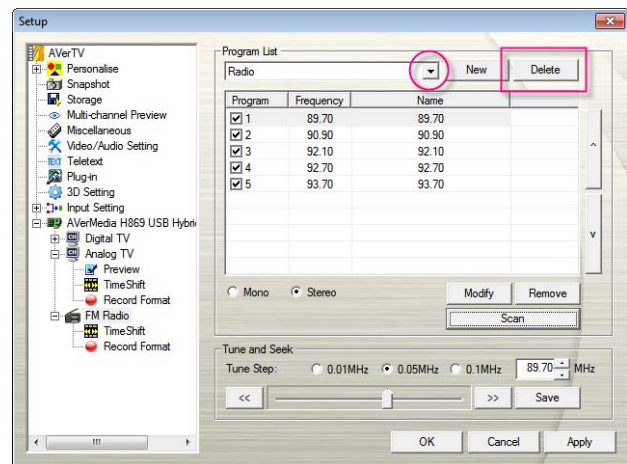
To add a new program list:

1. Click the **Setup** button  and select **Setup > Radio**.
2. Click **New** and the **Program List** dialog box appears. Type in a program name and click **OK**.
3. Now you can start to scan Radio channels and manage the scanned FM data for this new program list. For more information, refer to **Auto Scanning Radio Channels**.
4. To add more program lists, repeat steps 2 to 3.





To delete a program list:

1. Click the **Setup** button  and select **Setup > Radio**.
2. From the drop-down menu, select the name of the program list that you want to remove.
3. Click **Delete** to remove the selected program list.









3.3.8 Creating Radio Channel Groups

To add a new channel group:

1. Click the **Program List** button  on the control panel. Select **Program Group**. Then click the **Setup** button .

or

Click the **Program List** button  on the control panel. Select **Program Group Setting**.

2. When a dialog box appears, click **New** button .
3. Specify the desired name in the text box.
4. Hold down Shift or Ctrl key and click the channels from the list to select your own channel line up. Then, click  to add your selection to the desired group. Or drag the selected channels and drop them to the desired group.
5. Click **Save**  to save the settings or click **Cancel**  to abort without saving. If you want to delete the unwanted group, simply click **Delete** .

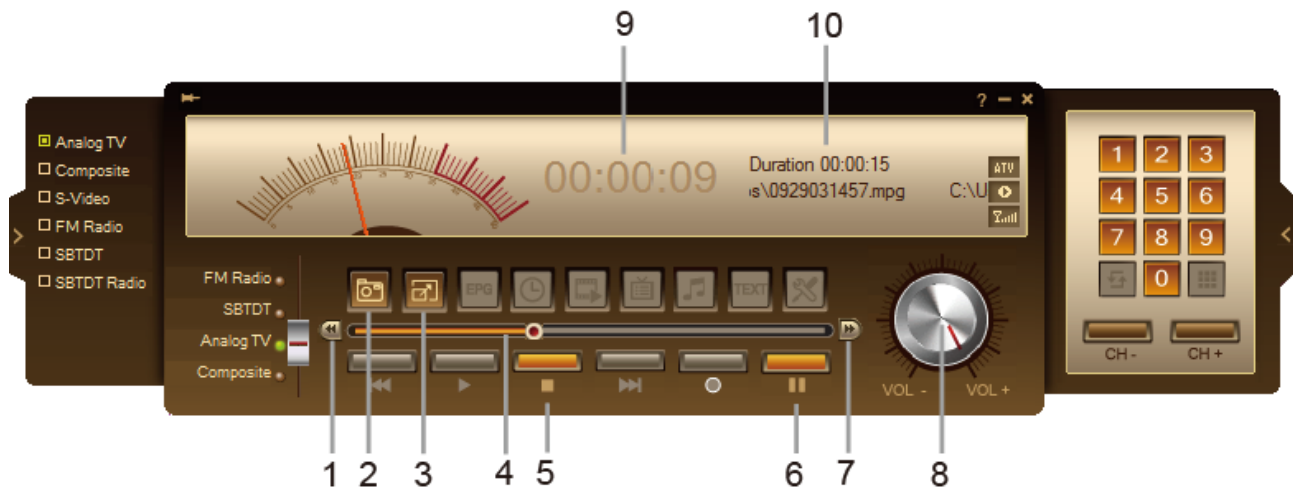


3.4 TimeShift

The TimeShift function performs background recording of a TV/Radio program, and lets you return and watch any part of the recorded program. At the same time, the live TV/Radio program continues to be recorded and played back so you won't miss any part of the show. You can also advance forward to skip commercials or rewind to replay scenes one more time.

3.4.1 TimeShift Controls

Use the following button controls in the Control Panel to start recording a live program, play back the program from where you left off, advance forward, rewind, and more.




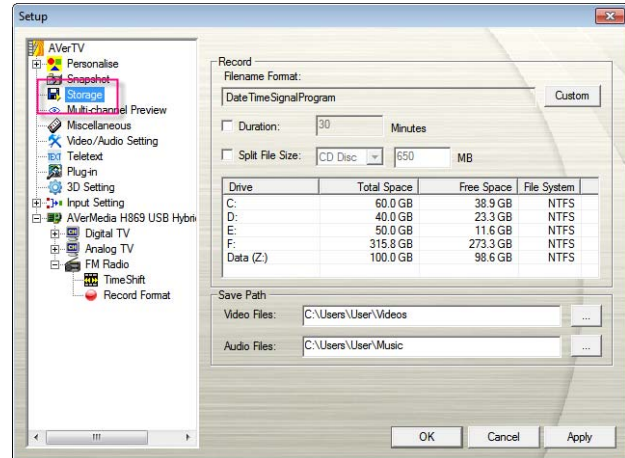
| | BUTTON | FUNCTION |
|----|-------------------|--|
| 1 | Backward | Click to move backward in intervals |
| 2 | Snapshot | Capture a single image or a sequence of images. |
| 3 | Full Screen | Show TV/Video programs in full screen. |
| 4 | Playback Seek | Drag the slider tab to move to any part of the recorded program. |
| 5 | Stop | Click to terminate recording and return to the live program |
| 6 | TimeShift / Pause | Click to perform background recording of the live program and play it back simultaneously. / Click to temporarily freeze the playback. |
| 7 | Forward | Click to skip forward in intervals |
| 8 | Volume | Drag your mouse up/down to increase/decrease the volume level. |
| 9 | Backward Duration | Show backward duration during Timeshift |
| 10 | Timeshift Info | Show available Timeshift duration and file info |

3.4.2 Customizing TimeShift Settings

Before you start using the TimeShift function, first check if its recording settings meet your needs.


To check and customize settings:


1. Click the **Setup** button  and select **Setup > Storage**.



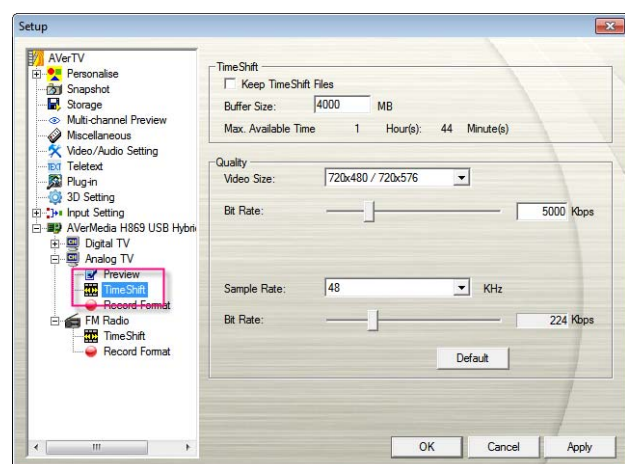
2. By default, TimeShift performs recording of the TV program by creating a temporary video file and deletes this file once you click the **Stop** button.
3. In the **Record** section, you can determine your file name format, recording time, file size and destination folder.
4. Click **Apply** to save the new settings and click **OK** to exit the current dialog box. Or, click **Cancel** to use the original settings.

To customize the file quality

1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Select **Timeshift**.
3. If you want to save the video file, select the **Keep TimeShift Files** check box.
4. Here you can determine the buffer size, video size, bit rate and sample rate.






 Please be noted the items may vary depending on the device you use.

5. Click **Default** if you want to revert to the factory settings.



3.4.3 Using the TimeShift Function

To pause the live program

1. Click the **TimeShift** button  on the Control Panel. The application will begin to record the program.
2. When you want to rewind, use the **Playback Seek** slider bar to move back to the part you want to watch or listen again. Click and drag your mouse over the slider tab to the left until you see the part of the show you wish to watch or listen, and then release the mouse button.
3. You can also click the **Backward** button  to move backward in fixed intervals until you reach the part where you left off.
4. To advance forward and skip some parts of the recording (for example TV commercials), drag the slider tab to the right. You can also click the **Forward** button  to move forward in fixed intervals.
5. To temporarily pause the playback, click the **Pause** button . Click **Pause** button again to resume.
6. To return to real-time viewing of the live program, click the **Stop** button . This switches off the TimeShift function and returns you to live program.

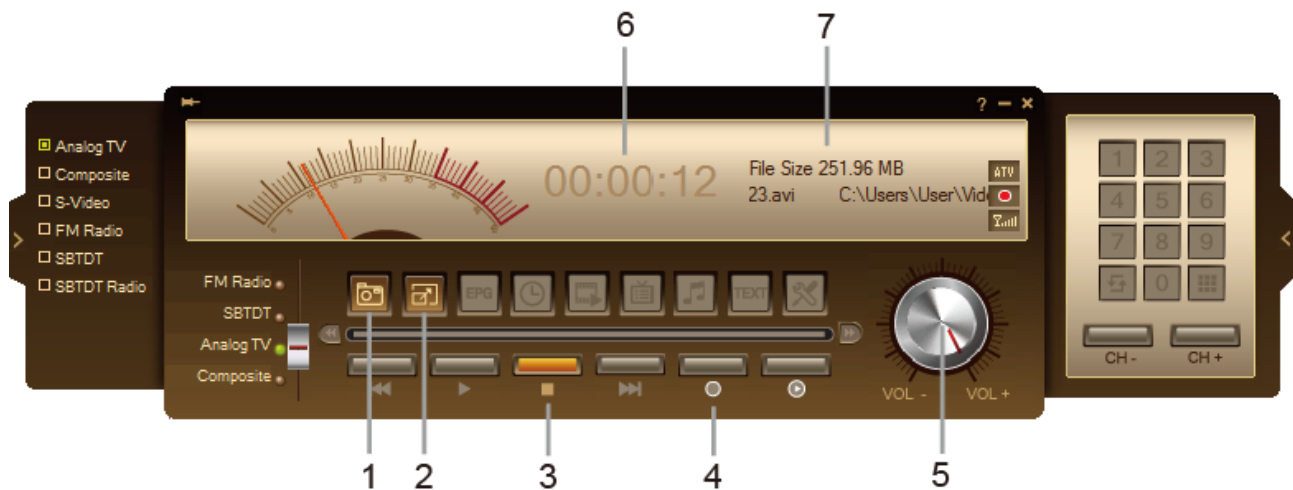


3.5 Recording and Playback

You can use your computer as a digital video recorder, and record your favorite TV programs or capture video from an external source to your hard drive. You can also divide the recording files in proper sizes to facilitate burning onto removable optical media, such as CD-R and DVD discs.

3.5.1 Recording Controls



Use the following button controls for recording and video playback.

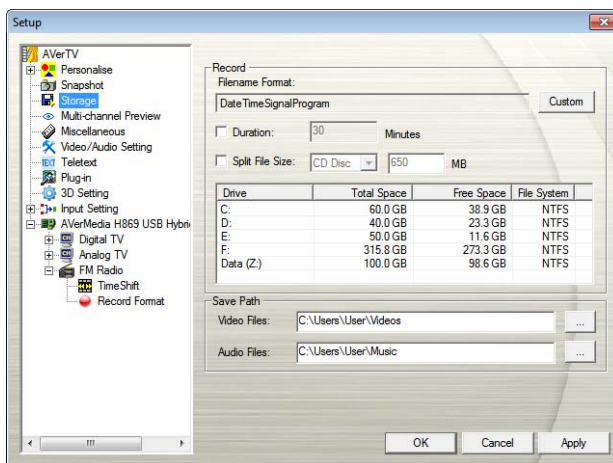


| | BUTTON | FUNCTION |
|---|--------------------|--|
| 1 | Snapshot | Capture a single image or a sequence of images. |
| 2 | Full Screen | Show TV/Video programs in full screen. |
| 3 | Stop | Click to stop recording or playback. |
| 4 | Record | Record the current program. |
| 5 | Volume | Drag your mouse up/down to increase/decrease the volume level. |
| 6 | Recording Duration | Show recording duration time. |
| 7 | Recordings Info | Show recorded file information. |

3.5.2 Recording Settings



Before recording, check if the settings meet your needs.

1. Click the **Setup** button  and select **Setup > Storage**.
2. By default, the system sets the recording **Date** and **Time** as the file name format. To create your own file name format, please click **Custom**.
3. The **Duration** option allows you to specify a recording duration; otherwise, the system will record the largest clip that your hard drive can accommodate.
4. You to divide the recording files into smaller parts for burning onto removable optical media, such as CD-R (650 MB) and DVD (4096 MB) discs. Enable the **Split File Size** option and select the appropriate video file size from the drop-down menu so that each video file will not exceed the limit. Or you can choose **Custom** to assign the file size you want.
5. Determine the destination folder. Click  to choose a folder you want.
6. Click **Apply** to save the settings and click **OK** to exit the current dialog box. To abort this operation, click **Cancel**.
7. To determine the file format, please refer to the section titled **Customizing Video Recording Settings** or **Customizing Audio Recording Settings**.



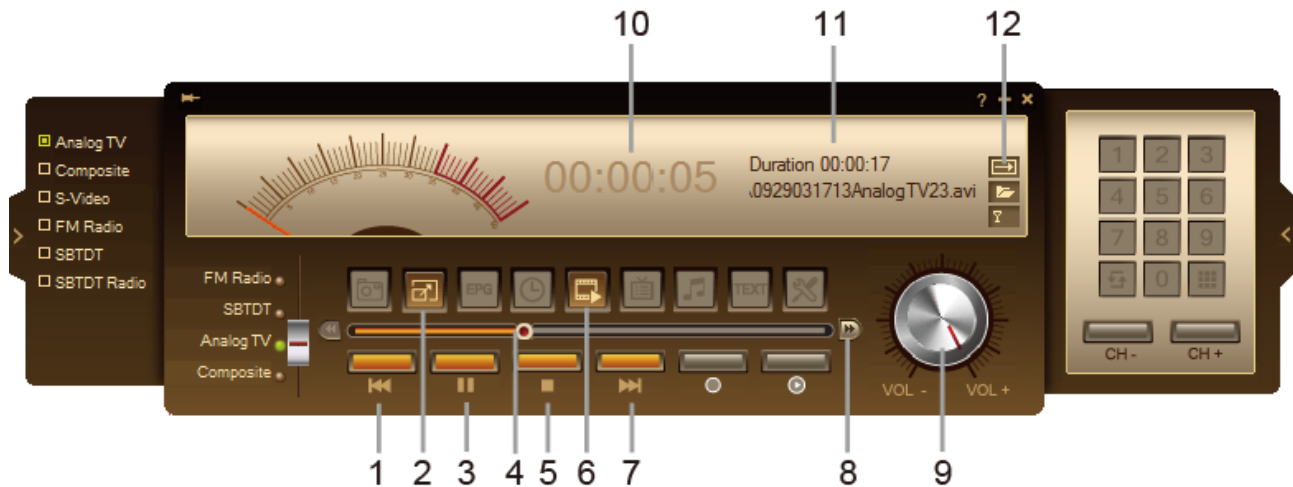
3.5.3 Using the Recording Function

To record a program

1. Click the **Record** button  on the Control Panel.
2. You can click the **Stop** button  to terminate the recording and return to live TV program.


3.5.4 Playing a Recorded Program

Each TV program that you recorded will be saved as a video file in the assigned destination folder.



| | BUTTON | FUNCTION |
|----|--------------------|---|
| 1 | Play Previous File | Click to go to the previous video file in the playlist. |
| 2 | Full Screen | Show TV/Video programs in full screen. |
| 3 | Play /Pause | Click to play back / Click to temporarily freeze the playback. |
| 4 | Playback Seek | Drag the slider tab to move to any part of the recorded file. |
| 5 | Stop | Click to stop recording or playback. |
| 6 | Play List | Click to create a playlist of video files to play back. |
| 7 | Play Next File | Click to go to the next video file in the playlist. |
| 8 | Forward | Click to switch to the next playback speed level. |
| 9 | Volume | Drag your mouse up/down to increase/decrease the volume level. |
| 10 | Backward Duration | Show backward duration time during playback. |
| 11 | Playback Info | Show playback file information. |
| 12 | Repeat Play Status | Right click on the repeat icon on the control panel to enable the repeat function. The system will continuously playback the files in the playlist. |


To play back the recorded video files

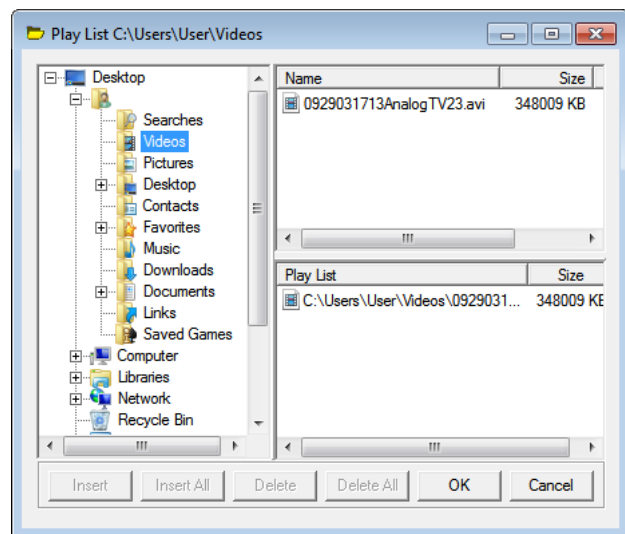
- Click the **Play** button  or drag the recorded video file to the TV Monitor or Control Panel to play back.

or

- Drag the recorded video file to AVerTV desktop icon to run the application and play back.

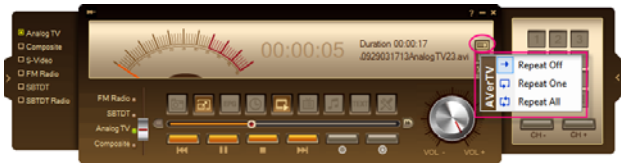
or

1. Click the **Play List** button , and you may see some recorded video files are listed at the top right pane of the **Playback List** window.
2. To add more video files to the playback list, first navigate the **file** on the left pane to find the folder that contains the desired video files. When you have located the folder, the media files will then be displayed on the right top pane. Select the files that you want, and then click **Insert**, or click **Insert All** to add all media files in the folder to the playback list.
3. To delete files from the **Playback List**, select them from the list in the bottom right pane and click **Delete**, or click **Delete all** to delete all files in the playback list.



To REPEAT playback of the recorded video files

- Right click the TV monitor, select **Playback**, and choose **Repeat Once** or **Repeat All** to enable the function. To disable the repeat function, just select **Repeat Off**.



or

- Right click the **Repeat Icon** on the Control Panel. In the pop-up menu, point to **Repeat Once**, **Repeat All**, or **Repeat Off**.


or

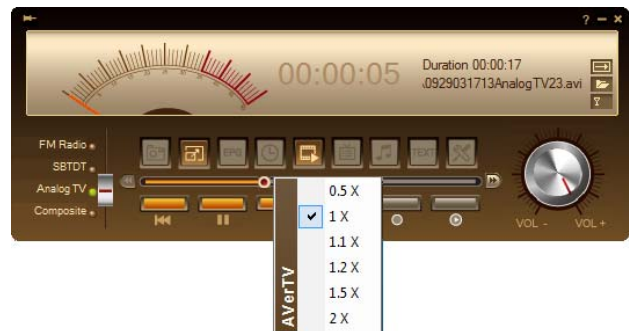
- Click on the **Repeat Icon** on the Control Panel to switch between **Repeat Once**, **Repeat All**, or **Repeat Off**.

You can change the fast-forward playback speed when playing back the recorded video files:

- Right click on the playback slider, and select the speed you want in the playback speed list.

or

1. Click on the **Fast Play Speed Loop** icon  at the right end of the slider. Click to switch to the next speed level based on the sequence in the playback speed list.
2. In fast-forwarding playback mode, **Play** button will be shown as **Pause**. Click **Pause** button to temporarily freeze the playback and click again **Play** button to continue playback.

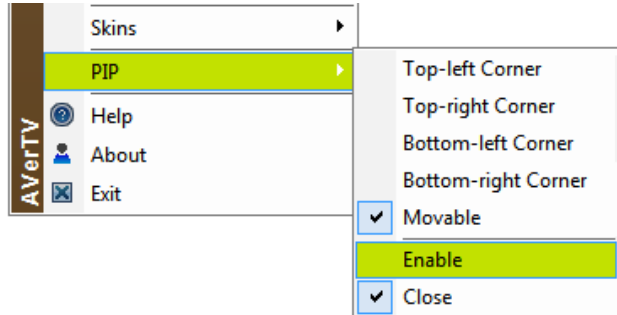







3.5.5 Picture-in-Picture Display

With the picture-in-picture window feature, you can play back recorded video files, and simultaneously, watch live TV.

To enable PIP function




- Right click the TV monitor, select **PIP** and choose **Enable**.
- You can also point to **PIP** and select a desired position of the PIP window.
- Select **Close** to disable the PIP function.



| Position | Description |
|---|--|
| Top-left Corner /  | Display the PIP window on the top-left corner |
| Top-right Corner /  | Display the PIP window on the top- right corner |
| Bottom-left Corner /  | Display the PIP window on the bottom-left corner |
| Bottom-right Corner /  | Display the PIP window on the bottom-right corner |
| Movable /  | Resize the PIP window and separate it from the main window |

By default, you will be able to play back recorded video files on the main window, and simultaneously, watch live TV on the PIP window.

To switch the video playback to the PIP window and the live TV to the main window


- Press the button . You can also press the button  to fix the size of the PIP window and the distance between the main window and the PIP window. To exit the PIP window, press .

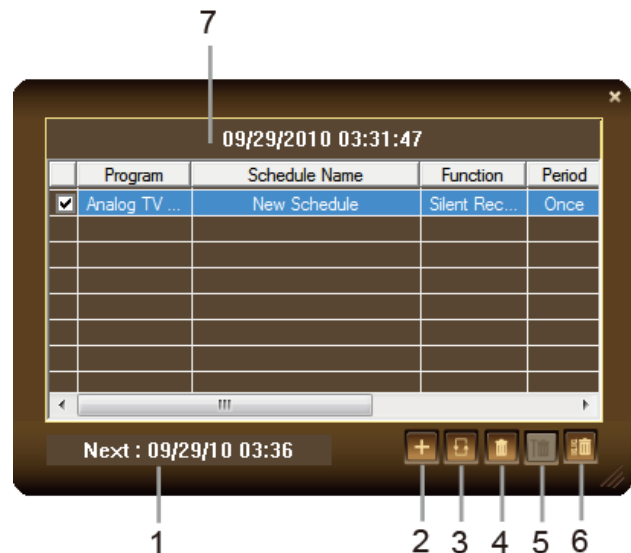
3.6 Scheduler

The **Scheduler** allows you to create a list of preset schedules for watching and recording your favorite TV/Radio programs. You can set the day and time to record the TV/Radio program and specify the length of recording.

3.6.1 Scheduler Controls

To run this application


- Click the **Schedule** button  on the Control Panel. Then the Scheduler dialog box will appear.
- The check box next to the **Program** column indicates the schedule will be executed at a preset time. Once the application starts to execute a scheduled task, the system will clear the check mark automatically. If you want to skip the schedule temporarily, just clear the check box.







| | | |
|---|-------------------------|---|
| 1 | Next Schedule Time | Show the next schedule activation time. |
| 2 | Insert | Add a new schedule. |
| 3 | Modify | Select a preset schedule and click this button to make changes. |
| 4 | Delete | Click this to delete selected schedule. |
| 5 | Delete Expired Schedule | Click this to delete the expired schedule. |
| 6 | Delete All | Click this to delete all schedules. |
| 7 | Current Time | Show current time. |

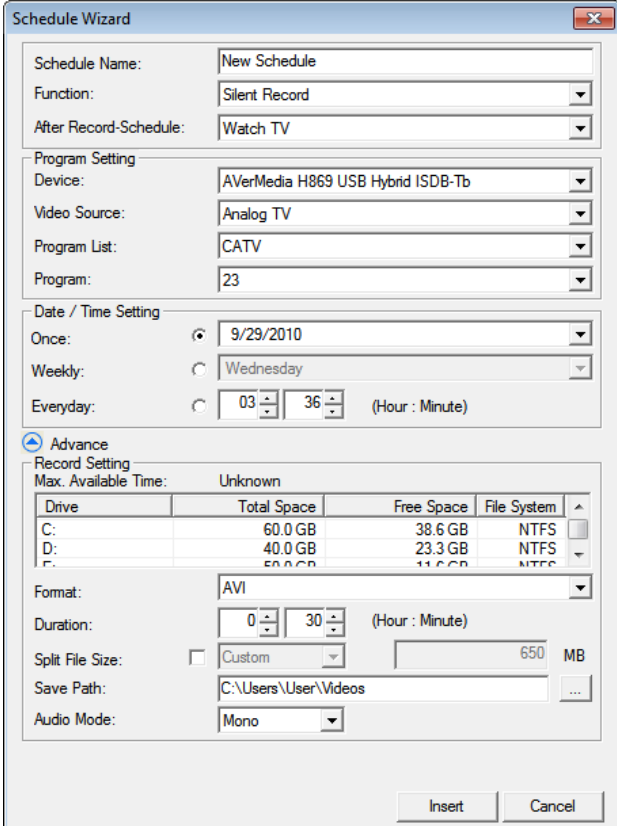
3.6.2 Adding Schedules

To create a new schedule

1. Click the **Add** button .
2. The **Schedule Wizard** dialog box appears.
3. Type the desired name in the **Schedule Name** text box.
4. From the **Function** drop-down menu, select the action to be scheduled.
 - **Activate AVerTV** : Watch a TV program or listen to a radio broadcast.
 - **Record** : Save a TV/Radio program for future viewing/listening.
 - **Silent Record** : Perform background recording instead of activating the TV/Radio program.
 - **Timeshift** : Schedule a task to enable Timeshift function.

 If you select **Silent Record**, when the application is performing the recording task, the icon  will appear on the task bar (the lower right corner of the screen). To immediately watch or listen to the TV/FM program which is being recorded, just double-click this icon.
5. In the **After Record-Schedule**, select an power control status after the scheduled recording is completed.
 - **Watch TV**: Switch to real-time TV mode.
 - **Exit**: Turn off the AVerTV Application.
 - **Stand By**: Turn off your monitor and hard disks.
 - **Hibernate**: Save everything and then turn off your computer.
 - **Shut Down**: Turn off your computer.

 If you choose **Watch TV** from the drop-down menu, after completing the **Silent Record** task, the icon  will appear on the task bar (the lower right corner of the screen). Just double-click this icon, you can immediately watch live TV or listen to the radio.
6. In the **Program Setting** section, select the desired device, video source, group and channel you want.



| Drive | Total Space | Free Space | File System |
|-------|-------------|------------|-------------|
| C: | 60.0 GB | 38.6 GB | NTFS |
| D: | 40.0 GB | 23.3 GB | NTFS |
| E: | 50.0 GB | 11.6 GB | NTFS |

7. In the **Date/ Time** section, select the frequency for your recording: **Once**, **Weekly**, or **Everyday**.
 - **Once** : Perform schedule at a preset day and a preset time.
 - **Weekly** : Perform schedule every week, at a preset day and time.
 - **Everyday** : Perform schedule everyday at a preset time.
8. If you choose **Activate AVerTV** in step 4, click **Insert** to complete the settings.
9. If you choose **Record** or **Silent Record**, you need to do the followings.
10. Click the **Advance** icon.
11. In the **Record Setting** section, you can determine the file format, recording duration, file size, destination folder and audio mode.
12. Click **Insert** to save the new schedule or click **Cancel** to abort without saving.

Schedule Wizard

Schedule Name: New Schedule
 Function: Silent Record
 After Record-Schedule: Watch TV

Program Setting
 Device: AVerMedia H869 USB Hybrid ISDB-Tb
 Video Source: Analog TV
 Program List: CATV
 Program: 23

Date / Time Setting
 Once: ☒ 9/29/2010
 Weekly: ☐ Wednesday
 Everyday: ☐ 03 : 36 (Hour : Minute)

Advance (highlighted icon)

Record Setting
 Max. Available Time: Unknown

| Drive | Total Space | Free Space | File System |
|-------|-------------|------------|-------------|
| C: | 60.0 GB | 38.6 GB | NTFS |
| D: | 40.0 GB | 23.3 GB | NTFS |
| E: | 50.0 GB | 11.6 GB | NTFS |

Format: AVI
 Duration: 0 : 30 (Hour : Minute)
 Split File Size: ☐ Custom 650 MB
 Save Path: C:\Users\User\Videos
 Audio Mode: Mono

Insert Cancel



3.7 Image Capture

While you watch TV or a recorded video on your PC monitor, you can use the **AVerTV 3D** application to capture images for your documents, presentations or web pages.

3.7.1 Setting the Destination Folder


Before you start capturing images, first set the destination folder for saving captured images.

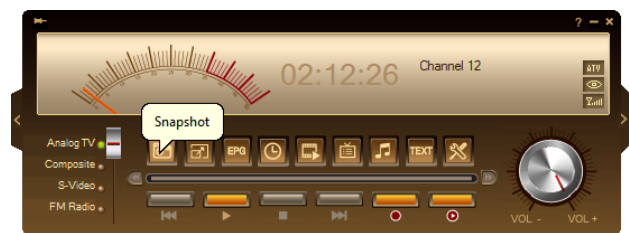
To set the destination folder

1. Click the **Setup** button  and select **Setup > Snapshot**.
2. Then click  to choose a folder where you want to save captured images

3.7.2 Capturing a TV/ Video Image


To capture a still image

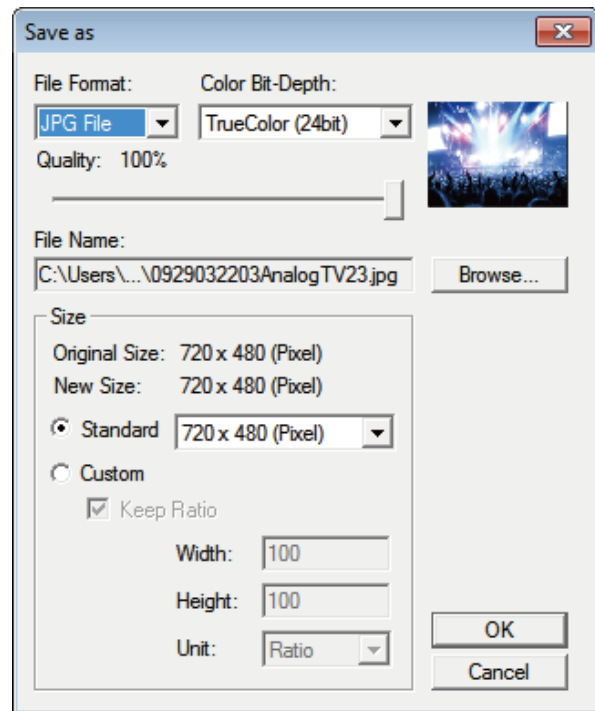
- Click the **Snapshot** button  on the Control Panel. The **Album** will then appear, displaying thumbnails of the captured images.
- New thumbnails will be added to the *Album* as you capture more images.
- Double-click on the thumbnails to view images in a full-screen window with default image viewer.



| | BUTTON |
|---|------------|
| 1 | Wallpaper |
| 2 | Save as |
| 3 | Remove |
| 4 | Remove All |



To save the captured image

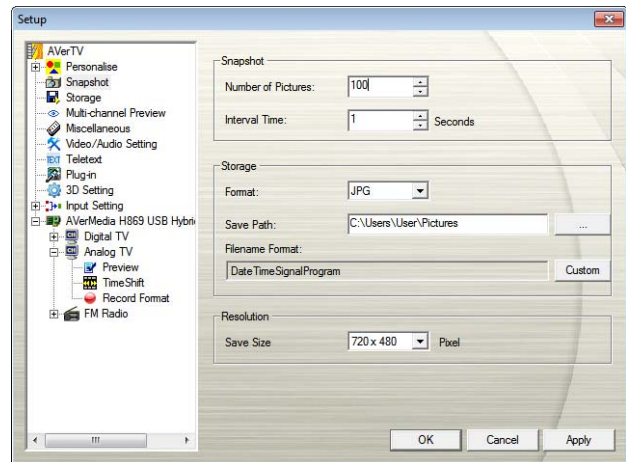
1. Select the thumbnail of the image.
2. Click the **Save As** button .
3. The **Save As** dialog box appears.
4. From the **File Format** drop-down menu, select the format for saving the captured image.
5. Select the **Color Bit-Depth** format. The options depend on the chosen file format.
 - Select 24-bit to capture image in 16M colors.
 - Select 8-bit to capture image in 256 colors.
6. Click **Browse** to scan for folders and select a destination location for saving the image. Then specify a file name for saving the captured image.
7. Select the image size in the **Size** section.
 - Select **Standard** to choose a desirable image size from the drop-down menu.
 - Select **Customize** to enter the preferred image **Width** and **Height**. If you want to maintain relative width and height, select the **Keep Ratio** option. Choose a measurement unit from the **Unit** drop-down menu. You can specify any image size you want. The maximum capture size is 1600x1200.
8. Click **OK** to save the image. Click **Cancel** if you do not want to save the image.



3.7.3 Multiple Image Sequence Capture


To capture a continuous sequence of images

1. Click the **Setup** button  and select **Setup > Snapshot**.
2. In the **Number of Pictures** box, specify the number of images you want to capture.
3. In the **Interval Time** box, specify the interval between captures. For instance, if you specify 10 seconds, an image will be captured every 10 seconds.
4. Select the file format and destination folder, file name format and image resolution.
5. Click **Apply** to save the new settings. Click **OK** to exit the current dialog box. Click **Cancel** to abort settings.
6. Click the **Snapshot** button  on the Control Panel to start capturing.



3.7.4 Setting Image as Your Desktop Wallpaper

To display the captured image as your desktop wallpaper

1. Select the thumbnail of the desired image and then click the **Wallpaper** button .
2. The selected image will be displayed as your desktop wallpaper, the background of your desktop.

3.8 3DTV

AVerMedia is honored to present to you the latest 3D TV watching technology in the latest version of **AVerTV 3D**. Not only are you able to watch the vivid representation of programs with 3D sources, but also transform a 2D TV program into a 3D one via the 3D simulation technology by **AVerTV 3D**.

Before diving into the whole new 3D world, make sure your PC system meets the requirements (please refer to the System Requirement at the beginning of this manual), pay attention to the health reminder concerning your personal welfares, and read the information on 3D technology to fully enjoy the entertainment that **AVerTV 3D** brings to you.

Health reminder

Watching 3D programs with the 3D glasses under correct usage and circumstances is not harmful to your eyes; however, some people might suffer from dizziness, nausea, headache or other uncomfortable feelings. To avoid suffering from any discomfort as such, or should any of these symptoms happen to you, please refer to the health notices below and consult the medical professionals if necessary.

- Do not wear the 3D glasses for any purpose other than 3D program watching. Wearing the 3D glasses for any activity not intended for 3D glasses application might cause serious damage or injury.
- Take regular breaks during long watching period.
- Keep a distance no less than 2.5 feet between you and the display while watching 3D program.
- If symptoms continue, stop wearing the 3D glasses and take the 3D glasses to the medical professionals for further examinations and medical advices.

3D technology application 101

1. 3D illusion and 3D technology

The 3D illusion in the real world for the human eyes usually refers to the depth caused by the compound of the two slightly different images seen through our eyes. Our eyes being spaced apart and each seeing a slightly different picture of the object, the human brain puts the received signals back together to calculate the distance, i.e, the depth, and this is exactly what a 3D video do: to recreate how the human eyes see things in the real world.

To recreate the human binocular vision on a 2D medium, we need images provided as how the human eyes perceive them and some gadgets that help us to put the artificial binocular images back to one, just as the brain works for us in the real world.

2. How 3D video signals are provided

To provide the images that the binocular vision requires, a technology called stereoscopic 3D is employed. Two images with slightly different perspectives of a video frame are provided simultaneously, with one sent to the left eye and the other to the right eye. The 3DTV broadcasts are either encoded as single video stream in side-by-side format or over/under format, or each view should be encoded as separate video stream. These two formats, which are known as "Frame Compatible," are adopted for the high bandwidth efficiency and better compatibility with existing hardware.

* Please be noted that blu-ray video 3D illusion is not supported in AVerTV 3D.

3. Different kinds of 3D glasses

The stereoscopic 3D technology described above requires the help of the 3D glasses, either passive or active ones, to properly filter the signals and then send the correct image to each eye to recreate the binocular vision.

The most commonly seen passive glasses are those with a pair of red and blue (or green) lenses. The color filtered image is then perceived by each eye to produce the three-dimensional effects. Because of the employment of color complementary, this method inevitably causes discolor.

The other kind of more advanced passive glasses are polarized glasses. Each lens of the polarized glasses blocks certain wavelength of the visible light, creating the difference of images perceived by each eye to produce the 3D effects. The linear polarized glasses use the combination of vertical and horizontal polarization, while the circular polarized glasses use the combination of clockwise and counter-clockwise polarization.

To create a more vivid and life-like binocular image and avoid discolor problem come the active glasses. The LC (liquid crystal) shutter glasses work with a transmitter or emitter connected to the computer and the each lens blinks on and off by turns in sync with the display at half of the display refreshing rate. Each eye seeing an image, from a slightly different angle, creates the binocular vision.




*To control 3D functions (3D View / 3D Record / see3D View / see3D Record) with the remote control, please first remap the remote keys. Refer to the section **Changing Definitions of the Remote Control Buttons** for details.*

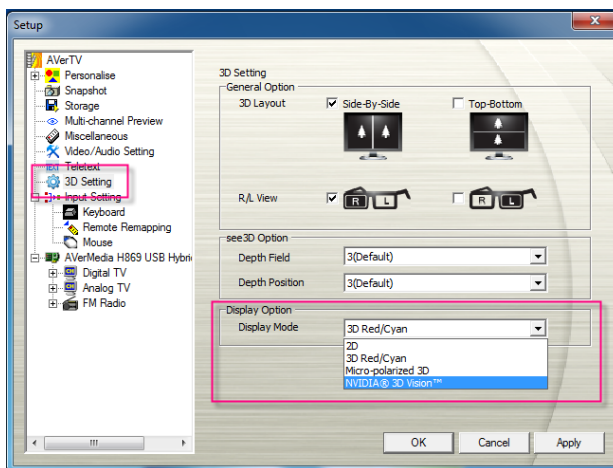
3.8.1 3D Watching Operations

Before watching 3DTV, please make sure you finish the scanning channels and setup process (please refer to the section **Scanning Channels** for more information).

Watching in 3D Mode

Before watching in 3D Mode, first configure the **3D Setting**

1. Click the **Setup** button  and select **Setup > 3D Setting**.
2. Try and select the correct **3D layout (Side-By-Side/Top-Bottom)** and **R/L View** based on your 3D source.
3. Select **3D Red/Cyan, Micro-polarized 3D, or NVIDIA® 3D Vision™** from the **Display Mode** drop-down menu according to your 3D watching equipments.
4. Click **Apply** to save the setting and click **OK** to exit the dialog box.



If you find 3D simulation is not satisfactory, it may be due to the incorrect 3D setting of “R/L View”. Please select the other option and retry.

To watch a live 3D source TV program via **AVerTV 3D** after setup

1. Switch to the channel of 3D source.
2. Click **3D** icon on the control panel.
3. Select **View** to start. The screen goes into full screen mode after you start watching 3DTV.
4. Now you can put on the 3D glasses and enjoy the vivid 3D program.
5. To end 3D watching, double click on the screen, press **Esc** key on your keyboard, or use the **Back** key on the remote control.





1. During 3D watching, operations such as channel switch, **TimeShift** are not available except for volume control.
2. To control 3D functions (3D View / 3D Record / see3D View / see3D Record) with the remote control, please first remap the remote keys. Refer to the section **Changing Definitions of the Remote Control Buttons** for details.

“NVIDIA® 3D Vision™” Settings

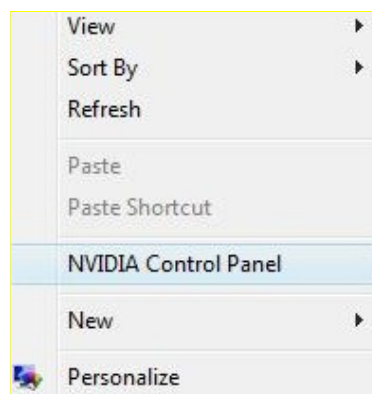
If you are using a **NVIDIA® 3D Vision™**, please follow the instructions below to complete the necessary settings for successful 3DTV watching.

1. Go to **Start → All Programs → NVIDIA Corporation → NVIDIA Control Panel**.

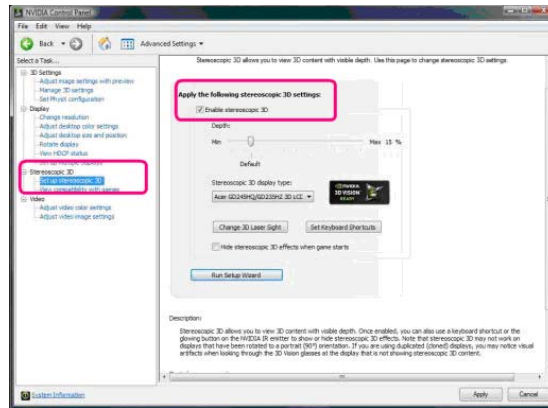


or

Right-click on the desktop to bring up the quick menu and select **NVIDIA Control Panel**.




2. Go to **Set up stereoscopic 3D** and check **Enable stereoscopic 3D** to activate 3D relevant settings.

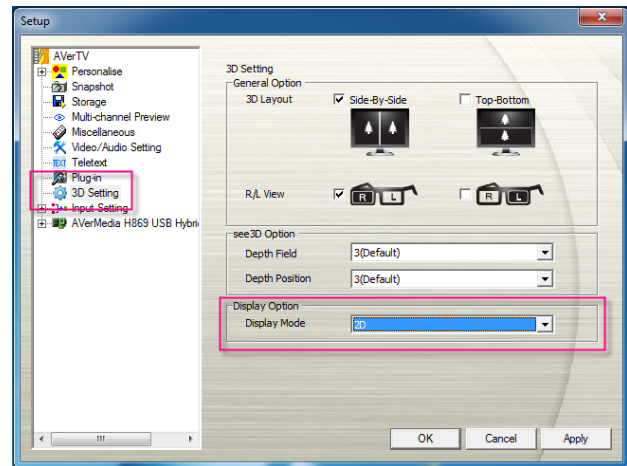


3.8.2 Watching a 3D Source TV Program in 2D Mode

If you prefer 2D TV watching for a live 3D source TV program, follow the instructions below to turn a 3D source TV program in 2D.

Before watching in 3D-to-2D Mode, first configure the **3D Setting**

1. Click the **Setup** button  and select **Setup > 3D Setting**.
2. Select **2D** from the **Display Mode** drop-down menu.
3. Click **Apply** to save the setting and click **OK** to exit the dialog box.



To watch a 3D Source TV Program in 2D Mode after setup

1. Switch to the channel of 3D source.
2. Click **3D** icon on the control panel.
3. Select **View** to start.
4. To end 3D watching, double click on the screen, press **Esc** key on your keyboard, or use the **Back** key on the remote control.

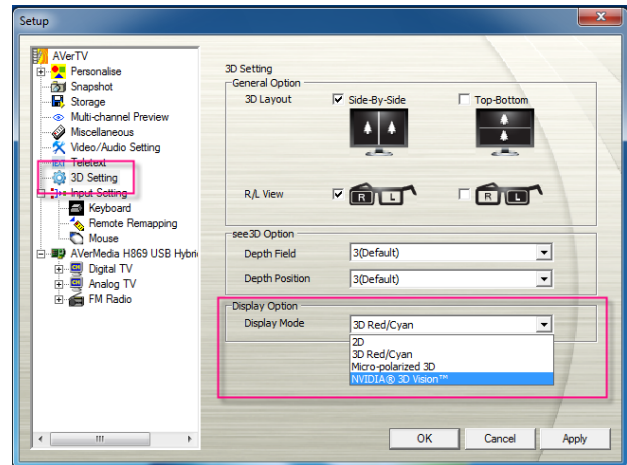


3.8.3 Watching a 2D Source TV Program in 3D Illusion via AVerTV 3D

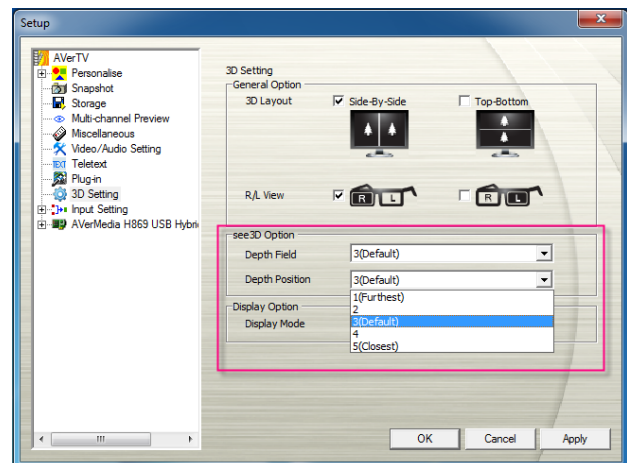
AVerTV 3D allows you to enjoy the 3DTV watching fun even with the common 2D source TV programs. Follow the instructions below to turn a 2D source TV program into a 3D simulation one.

Before watching in 2D-to-3D Mode, first configure the **3D Setting**

1. Click the **Setup** button  and select **Setup > 3D Setting**.
2. Select **3D Red/Cyan**, **Micro-polarized 3D**, or **NVIDIA® 3D Vision™** from the **Display Mode** drop-down menu according to your 3D watching equipments.



3. Select a value from both the drop-down menu of **Depth Field** and **Depth Position** to your liking.
- The value of **Depth Field** that you choose alters the sharpness and focus of the images represented on your PC screen, so the higher value you choose, the deeper of the image effects the **see3D** simulates.
 - The value of **Depth Position** that you choose alters the distance you perceived between the images represented on your PC screen and yourself. The higher value you choose, the closer distance you feel from the screen.
4. Click **Apply** to save the setting and click **OK** to exit the dialog box.



The 2D-3D video conversion effect will be influenced by the quality of your resource content.

To watch a 2D source TV program in 3D illusion via AVerTV 3D after setup

1. Switch to the channel of 2D source.
2. Click **see3D** icon on the control panel.
3. Select **View** to start watching a 2D program in 3D mode.
4. To end see3D watching, double click on the screen, press **Esc** key on your keyboard, or use the **Back** key on the remote control.



*If you select **2D** from the **Display Mode** drop-down menu on the **3D Setting** page, you will see a 2D TV image when you click **see3D** and select **View**.*

3.8.4 Recording a 3DTV Program

To record a 3DTV program


1. If the screen hasn't gone into 3D watching full screen mode, click **3D / see3D** icon on the control panel and select **Record** to start.
2. To end 3D recording, double click on the screen, press **Esc** key on your keyboard, or use the **Back** key on the remote control.

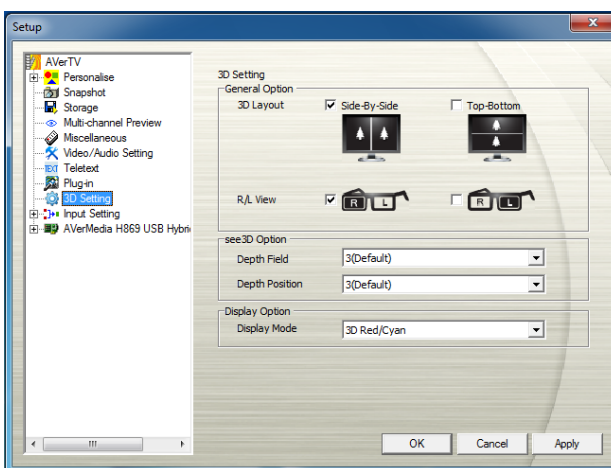
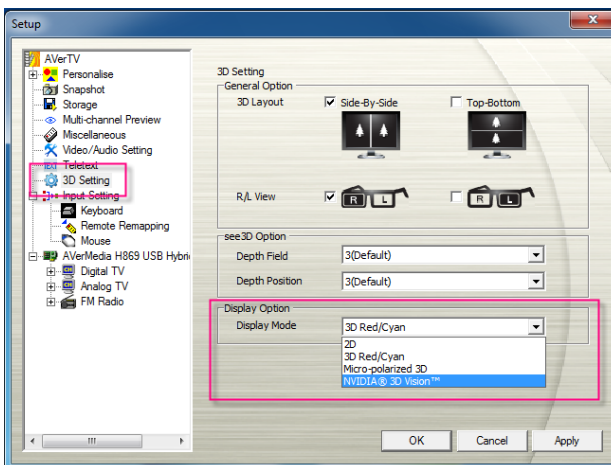


1. *The screen goes into full screen mode after you start recording.*
2. *Please DO NOT exit full screen mode during 3D video recording or the recording will be stopped.*
3. *Any system messages will end 3D video recording or 3DTV viewing.*

3.8.5 Playing a Recorded 2D Source TV Program in 3D Simulation

Before playing recorded files in 3D Mode, first configure the **3D Setting**

1. Click the **Setup** button  and select **Setup > 3D Setting**.
2. Select **3D Red/Cyan**, **Micro-polarized 3D**, or **NVIDIA® 3D Vision™** from the **Display Mode** drop-down menu according to your 3D watching equipments.
3. Select a value from both the drop-down menu of **Depth Field** and **Depth Position** to your liking.
4. Click **Apply** to save the setting and click **OK** to exit the dialog box.



Playing a Recorded 3DTV Program

1. Play a recorded 2D source TV program (please refer to the section **Playing a Recorded Program** for details).
5. Click **see3D** icon on the control panel.
6. Select **View** to start watching a 2D program in 3D mode.
2. To end see3D watching, double click on the screen, press **Esc** key on your keyboard, or use the **Back** key on the remote control.


Chapter 4 Advanced Operations

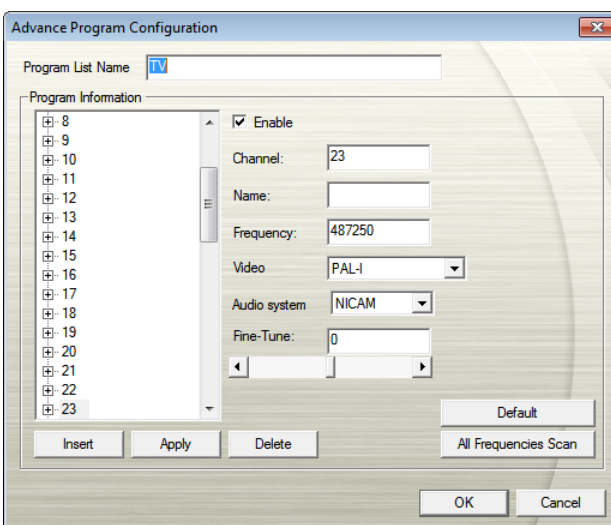
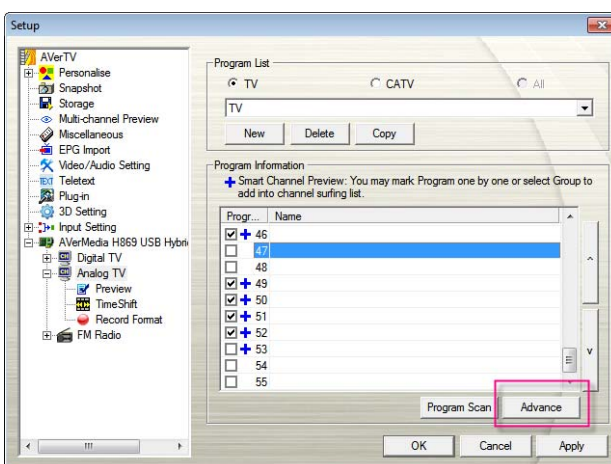
4.1 TV Settings

4.1.1 Scanning Channels

If you do not want to miss any channels, you can also use **All Frequencies Scan**.

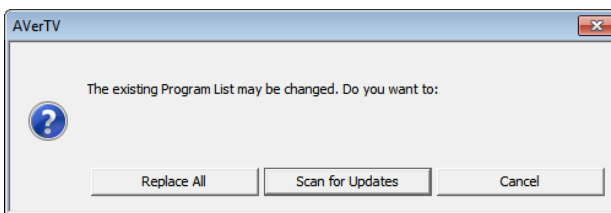
(A) For Analog TV

1. Click the **Setup** button  and select **Setup**. Then choose an available AVerMedia device in the left pane.
2. Then select your desired signal input (**Analog TV, Digital TV**).
3. Click **Advance**.
4. Click **All Frequencies Scan**.
5. When a warning message appears, click **Yes** to continue or click **No** to cancel.
6. After scanning, new active channels will be memorized and listed in the left pane of the dialog box.
7. Click **Apply** to save the scanned channels.
8. Here you can modify the channel name, and select the video and audio system. To revert to the factory setting, click **Default**.
9. To add a channel to the program list, click **Insert**.



If an alert about removing action shown on the screen, it means to execute the scanning process will replace the existing program list.


- Click **Replace All** to remove the existing program and scan for new programs.
- Click **Scan for Updates** to keep the existing program and append the new programs which do not exist in the current channel list.
- Click **Cancel** to stop the rescanning.

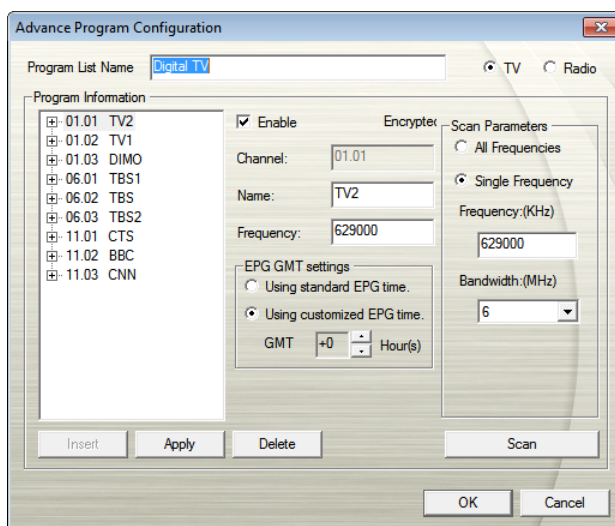


By default, the check box of the pay channels will not be selected when scanning is completed. Users need to select the check box for watching the pay channel.

(B) For Digital TV

1. Click **Advance**.
2. Select **All Frequencies** or **Single Frequency**.


 **All Frequencies Scan** may take you a while. Please wait patiently.
3. If you select **Single Frequency**, specify the correct **Frequency** you need, for example 533000 (KHz), and **Bandwidth**.
4. Click **Scan**.
5. After scanning, new active channels/programs will be memorized and listed in the left pane of the dialog box.
6. Click **Apply** to save the scanned channels.

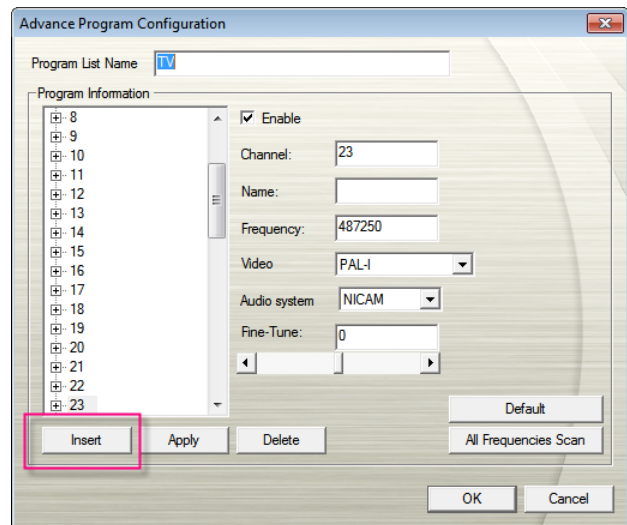


4.1.2 Inserting Wanted Channels

You can change a program list name easily.


To rename a program list

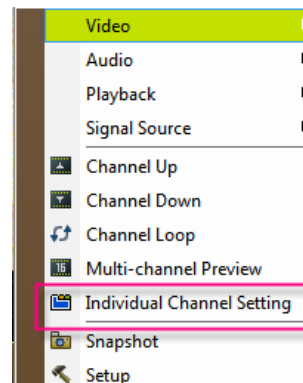
1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Click **Advance**.
3. In the dialog box, select the channel/program you want to assign a name or description.
4. Input the correct channel information in the Program information section.
5. Click **Insert** to add the customized channel into the program list.
6. Click **Apply** to save the setting and click **OK** to exit the dialog box. Click **Cancel** to abort saving.





4.1.3 Enhancing the Video Quality

To enhance the video quality

1. Right click on the TV monitor and select **Individual Channel Setting**.
or
Click **Setup** button  and select **Individual Channel Setting**.





2. Select **Video** tab.
3. Choose a desired option from the **Video Quality Enhancement** drop-down menu.
 - **Enable**: Activate to improve the video quality.
 - **Disable**: Disable the video quality enhancement function.
 - **Automatic**: Automatically adjust video quality depending on the video screen size.
4. If you just want to enhance video quality of one specific channel, select **Apply this setting to the current channel** and repeat step 3. To apply the converted settings to all channels, click **Apply All** button .
5. Click **Default** button  if you want to revert the factory settings.



4.1.4 Using the De-interlace Function

The de-interlace function can remove the jagged edges of images in serial rapid movement. It is recommended using this function to ensure smooth and clear video images.

To use the de-interlace function



1. Right click on the TV monitor and select **Individual Channel Setting**.
or
Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .
2. Select **Video Setting** tab.
3. From the De-Interlace drop-down menu, try all the options to compare which can give you the best quality.





4.1.5 Color Enhancement

You can use Color Enhancement function to make your video clearer and sharper, and at the same time enhance the video color. It's also easier for you to adjust the effect as you want with side-by-side Vertical Split Mode or Compare Mode.

To use the color enhancement function

1. Right click on the TV monitor and select **Individual Channel Setting**.
or
Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .
 2. Select **Video Setting** tab.
 3. Select **Color Enhancement** check box to enable the function.
 4. From the **Display Mode** drop-down menu, select an option to start adjusting the video.
- Select **Normal Mode** to see the effect of Color Enhancement setting.
 - Select **Split Mode** or **Compare Mode** to split the video image vertically into two screens. Right screen displays the result of the Color Enhancement function.







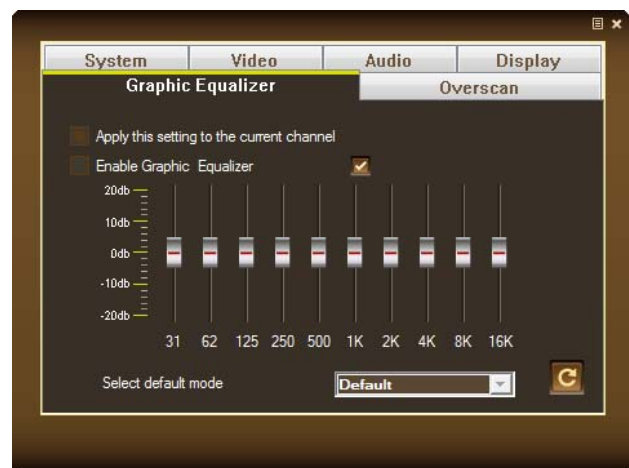
- From the **Setting Mode** drop-down menu, choose **Automatic** to automatically set the suitable value, or choose **Manual** to adjust the value as you prefer.
- To apply the converted settings to all channels, click **Apply All** button .
- Click **Default** button  if you want to revert the factory settings.



4.1.6 Graphic Equalizing

The graphic equalizer function enables users to have the best audio quality for the chosen music style.

- Right click on the TV monitor and select **Individual Channel Setting**.
or
Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .
- Select **Graphic Equalizer** tab.
- Select **Enable Graphic Equalizer** check box to enable the function.
- Select the desired music style from the **Select default mode** drop-down menu.
- If you just want to adjust sound effects for one specific channel, select **Apply this setting to the current channel** and repeat step 3 and step 4.
- To apply the converted settings to all channels, click **Apply All** button .
- Click **Default** button  if you want to revert the factory settings.





4.1.7 System Settings


In the System settings page, you are able to modify the audio system and audio mode based on the TV system you use.



1. Right click on the TV monitor and select **Individual Channel Setting**.

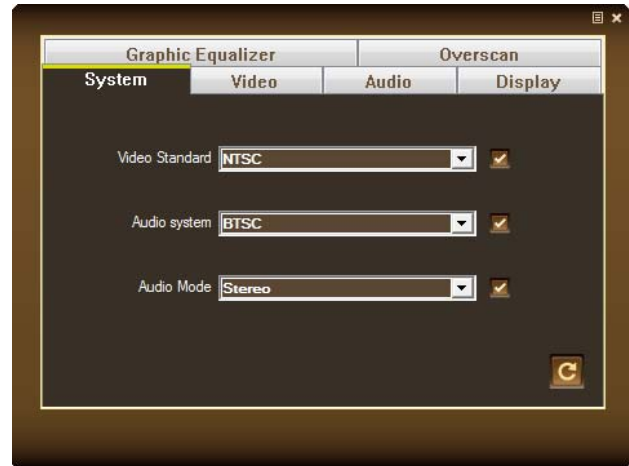
or

Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .

2. When a dialog box appears, select **System** tab.
3. Select the TV system from the Video Standard drop-down menu.
4. Choose the preferred **Audio System** or **Audio Mode** from the drop-down menu.

 The items in the drop-down menu of **Audio System** and **Audio Mode** may differ based on the selected Video Standard.

5. To apply the converted settings to all channels, click **Apply All** button .
6. Click **Default** button  if you want to revert the factory settings.



4.1.8 Using the Overscan Function

On some broadcast channels, you might see distorted lines or black spaces on the top, sides, or bottom of the screen. These video artifacts derive from the source signal, and can be masked using the **Overscan** feature.



To hide the edges of the picture





- Right-click on the TV Monitor and choose **Overscan** to enable it.

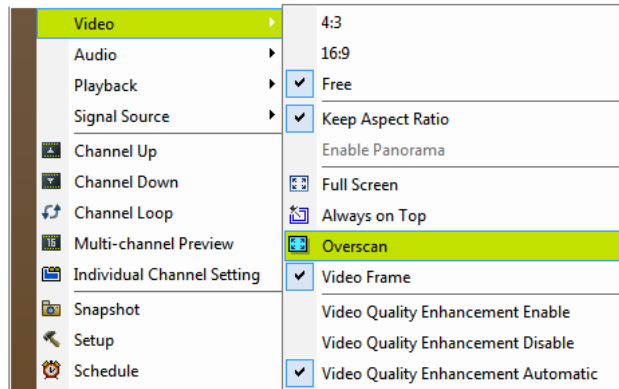
or


1. Right click on the TV monitor. When a pop-up menu appears, select **Individual Channel Setting**.

or

Click **Program List** button  on the control panel and then click **Individual Channel Setting** button .

2. When a dialog box appears, select **Overscan** tab.
3. Use  and  to adjust either side of the margins for a better quality image
4. To have equal margins of all sides, click on the **Lock All** icon. Then use  to increase or decrease the number (0~50) as you prefer.
5. For equal left and right margins, select the **Keep Vertical Ratio** check box. For equal top and bottom margins, select the **Keep Horizontal Ratio** check box. Then use  to adjust the margin height or width.
6. If you just want to apply Overscan setting to one specific channel, select **Apply this setting to the current channel** and repeat step 4.



7. Click **Default** button  if you want to revert the factory settings.
8. Clear **Overcan** check box if you want to disable overscan function.

You can see the difference from the pictures below:






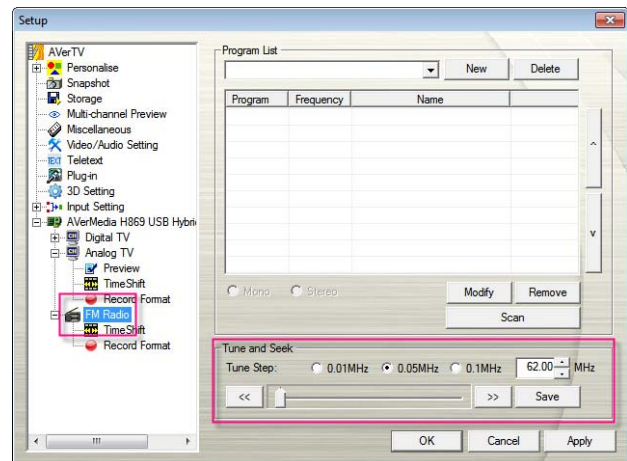
4.2 Radio Settings

4.2.1 Manually Scanning Specific FM Channels

Instead of scanning all channels, you can choose to manually scan one or a few channels only. To do this, follow these procedures.

To manually rescan specific Radio channels:


1. Click the **Setup** button  and select **Setup > Radio**.
2. Enter the channel frequency that you want to start scanning in the text box.
3. Select 0.01 MHz, 0.05MHz or 0.1MHz as your tuning increment.
4. Click  to scan upward or  to scan downward from the selected channel frequency. The scanning stops when the application finds the closest ACTIVE FM frequency.
5. Click the **Modify** button if you'd like to keep the newly scanned frequency.

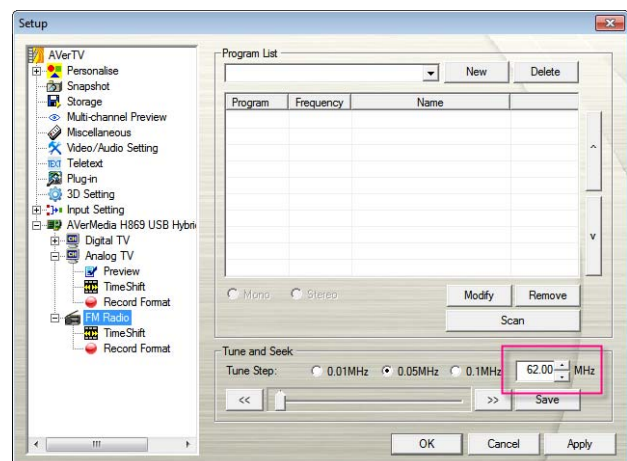


4.2.2 Adding a Radio Frequency

If a known and desired channel cannot be found through scanning, manually add a radio frequency.

To add a radio frequency

1. Click the **Setup** button  and select **Setup > Radio**.
2. Specify the correct frequency in the text box and click **Save**.



4.2.3 Assigning a Radio Frequency

If you already know the radio frequency of the desired channel, you can assign the radio frequency.

To assign the radio frequency

Click the **Channel** icon on the Numeric buttons to switch from **Channel** mode to **Frequency** mode.

- Then click on the **numeric buttons** to get your desired radio frequency numbers.
- Use the **numeric keys** on your keyboard to specify the desired radio frequency numbers.
- Use the **numeric keys** on the remote control to get your desired radio frequency numbers.




*Under **Frequency** mode, there are three ways to key in the frequency numbers. For instance, to get the frequency of 91.7 MHz, simply key in 91.7, 917 or 9170.*




*Under **Frequency** mode, if you click **CH-/+** buttons on the Control Panel, the radio frequency will increase or decrease (0.01 MHz, 0.05MHz or 0.1MHz) in intervals based on the tuning increment you select. (To select the tuning increment, please refer to **Manually Scanning Specific FM Channels**)*

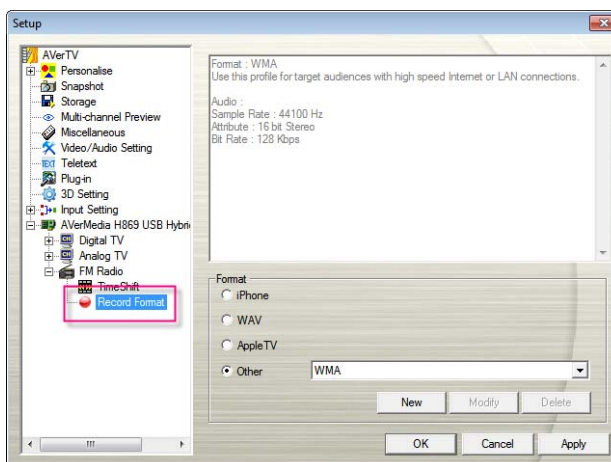
4.2.4 Customizing Audio Recording Settings

To customize audio recording settings:

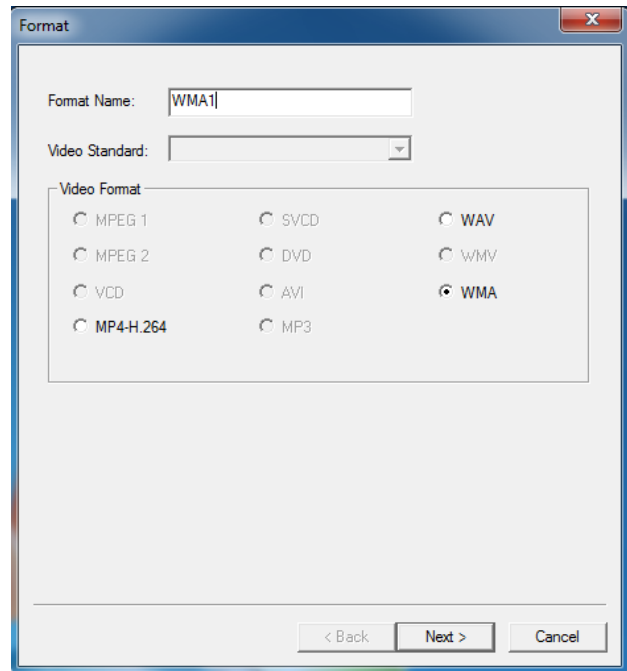
1. Click the **Setup** button  and select **Setup**. Then choose an available AVerMedia device
2. Select **Radio**.
3. Select **Record Format**.

You can choose default format as your audio file format. Or, you can click **New** to create your own file format.

 *For file format description, please refer to the section titled **Customizing Video Record Settings**.*



4. In the **Format** dialog box, select the audio file format.
5. Enter the desired format name or description in the *Format Name* text box.
6. Click **Next**. In the **Video** dialog box, select the desired audio format.
7. Click **Finish**.
8. If you want to change the setting of your own file format, click **Modify** or you can click **Delete** to remove the unwanted file format that you created earlier.
9. Click **Apply** to save the setting and click **OK** to exit the current dialog box. To abort this operation, click **Cancel**.




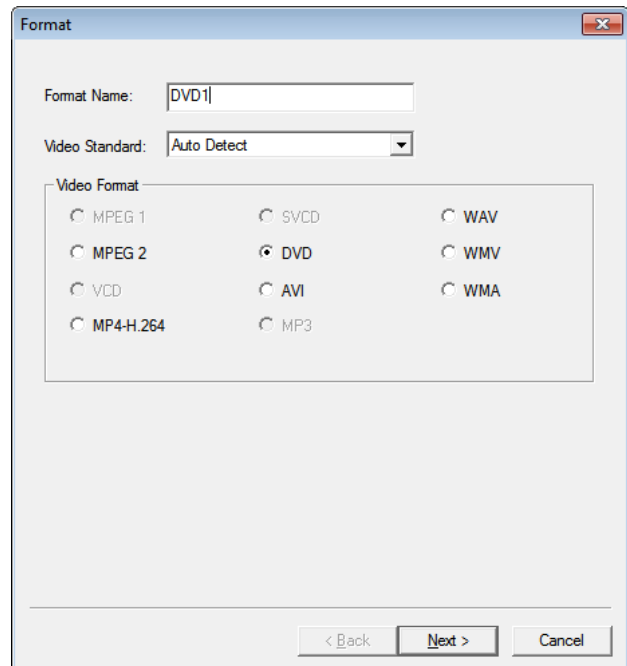
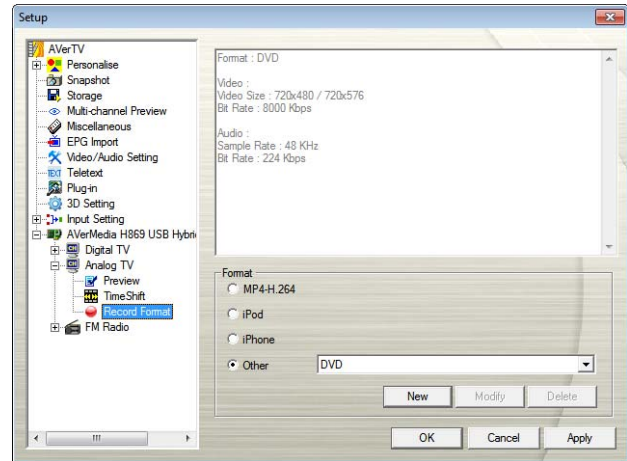
To determine the length of recording and to choose a destination folder in which to save the recorded audio, please refer to the section titled **Recording Setting**.

4.3 Recording Settings

4.3.1 Customizing Video Record Settings

To customize the video record settings

1. Click the **Setup** button  and select **Setup**. Then choose your desired signal input on the left pane.
2. Select **Record Format**.
3. Select the video file format for saving the recorded video file.
4. Use the default format or select **New** to create your own file format.
5. If you click **New**, the **Format** dialog box appears. In the **Format** dialog box, select the file format you want and enter the desired name in the text box. Click **Next**.
6. In the **Video** dialog box, you can set the video format and audio format. Click **Finish**.
7. If you want to change the settings of your own file format, click **Modify**. Or click **Delete** to remove the unwanted file format that you created.
8. Click **Apply** to save the setting and click **OK** to exit the current dialog box. To abort this operation, click **Cancel**.

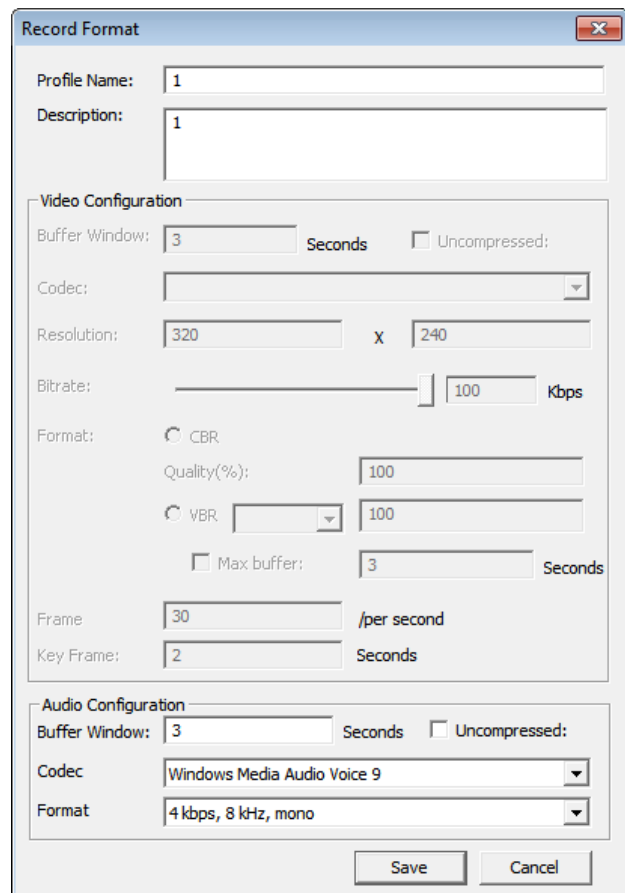
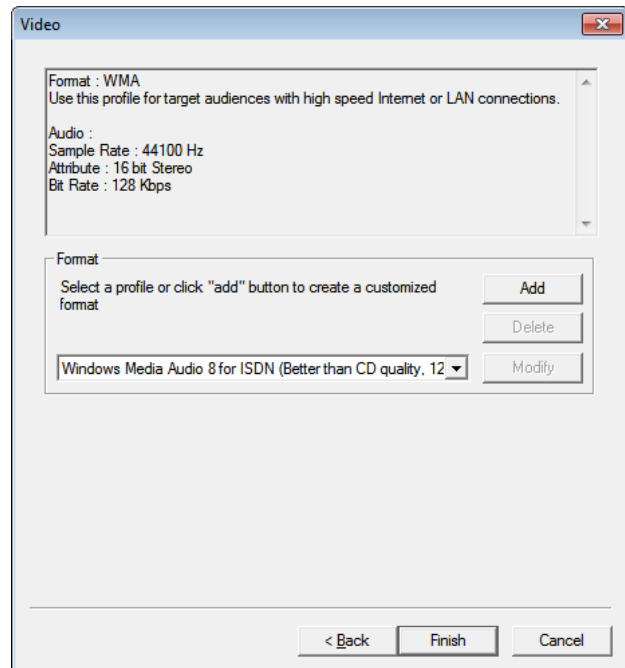


4.3.2 Customizing Video Record Formats

The WMA/WMV/ MPEG-2 files are allowed to be customized.

To customize WMA/WMV/ MPEG-2 files

1. Follow the previous steps, but choose the WMA, WMV or MPEG-2 file format in step 3.
2. Click **New**. In the *Format* dialog box, select the WMA/WMV/MPEG-2 file format and enter the desired name in the text box. Click **Next**.
3. In **Video** dialog box, select a profile.
or
Click **Add** button to create a customized format.
4. Click **Add**
 - If you choose the **WMA/WMV** files, you will see the **Record Format** dialog box (as shown at right). Here you can create your preferred video and audio configurations for video recording. Then, click **Save→Finish**.



- If you choose the MPEG-2 files, you will see the **Video dialog** box(as shown at right). Here you can set the video/audio format. Then click **Finish**.

5. Click **Apply** to save the setting and click **OK** to exit the current dialog box.

The screenshot shows a 'Video' dialog box with two main sections: 'Video Format' and 'Audio Format'.
Video Format:
 - 'Enable Video Quality Enhancement' is checked.
 - 'Video Size' is set to '720x480 / 720x576'.
 - 'GOP (N):' is set to '15'.
 - 'SubGOP (M):' is set to '3'.
 - 'Data Format' is set to 'IBBPBBPBBPBBPBB'.
 - 'Bit Rate' is set to 'Constant bitrate (CBR)' with a value of '5000 Kbps'.
 - A slider indicates 'Uses 2187 MB per hour.'
Audio Format:
 - 'Sample Rate' is set to '48 KHz'.
 - 'Bit Rate' is set to '224 Kbps'.
 - A slider indicates 'Uses 98 MB per hour.'
 At the bottom, there are three buttons: '< Back', 'Finish', and 'Cancel'.



To determine the length of recording and to choose a destination folder in which to save the recorded audio, please refer to the section titled **Record Settings**.

Information:

| File Format | Description |
|---------------|--|
| MPEG-2 | Videos compressed using MPEG-2 have extremely high quality pictures and full CD-quality sound. Choose MPEG-2 format for video files that are intended for DVD-ROM playback on a computer or if you want broadcast quality videos. |
| DVD | When you choose this format, the recorded video file will be saved in MPEG-2 format that is compliant with DVD standards. Standard DVD frame size and frame rate are 720 x 480 pixels at 29.97 fps for NTSC and 720 x 576 at 25 fps for PAL. |
| AVI | AVI is the most common video file format for playback on the computer. It can be saved in uncompressed form if you want high quality video, or compressed using any of the available codecs if you want to minimize the file size. |
| WAV | A common audio file format for Windows computers. It was created by Microsoft and has become a standard PC audio file format. |
| iPod | A video format base on H.264 standard but has smaller video bit rate. It's an iPod -compatible format. |

| | |
|------------------|--|
| PSP | A video format base on H.264 standard but has smaller video bit rate. It's an PSP -compatible format. |
| MP4-H.264 | Videos compressed using MPEG-4 standard are two or three times more efficient than MPEG-2. This format can be applied to a wide variety of applications or networks and systems like HD-DVD, Digital TV, Broadcast and Streaming applications. |
| WMA | An audio file format that is use for content intended for local playback or download and play. It provides near-CD quality. |
| WMV | WMV stands for Window Media Video, which is defined by Microsoft. This file targets audiences with high speed Internet or LAN connections. |
| MP3 | An audio format compressed with a standard defined by Motion Picture Experts Group offers near-CD quality sound. |
| iPad | A video format that is optimized for viewing on iPad. |
| iPhone | A video format that is optimized for viewing on iPhone. |
| Apple TV | A video format that is optimized for viewing on Apple TV. |



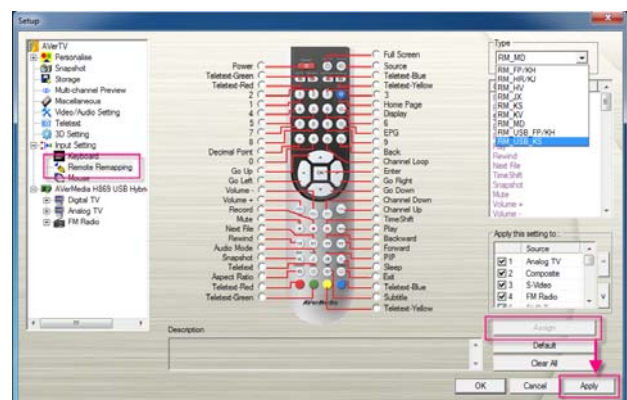
To determine the length of recording and to choose a destination folder in which to save the recorded audio, please refer to the section titled **Record Settings**.

4.4 Input Settings

4.4.1 Changing Definitions of the Remote Control Buttons

To re-define a function for a certain button on the remote control

1. Click the **Setup** button  and select **Setup > Input Setting > Remote Remapping**.
2. Select a desired button and choose a new command from the right pane of the dialog box. Then click **Assign**.



or

From the right pane of the dialog box, drag the desired command and drop it on the remote button which you want to change the definition.




3. Click **Apply** to save the settings.
4. Click **Clear All** to delete all definitions of the remote control or click **Default** to revert to the factory setting.

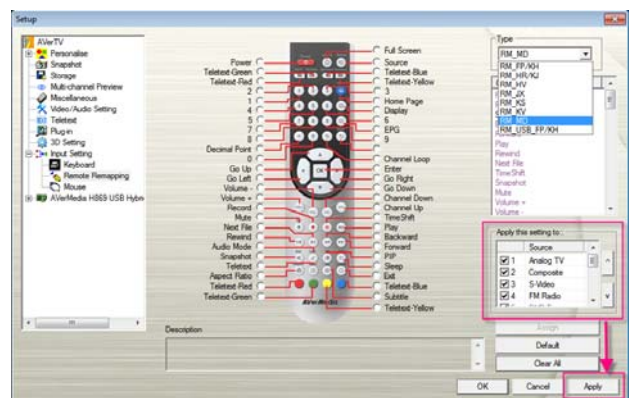


*If you are using an AVerMedia USB tuner stick, please select the **Type** with “USB” wording (i.e. RM_USB_KS).*

4.4.2 Customizing the Remote Control Source Button


On the Remote Source Control page, you may customize the remote control **Source** button to switch on the selected item.

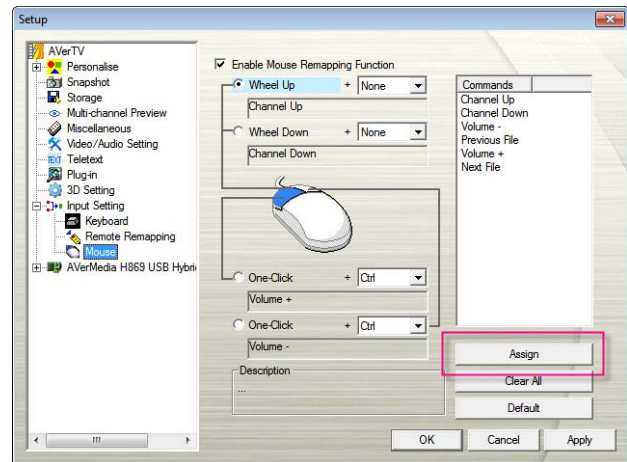
1. Click the **Setup** button  and select **Setup > Input Setting > Remote Remapping**.
2. Select the signal source.
3. Click the **UP** or **DOWN** button   at the right side until the selected signal reaches the location you desire.
4. Click **Apply** to save the settings. Or click **Default** to revert to the factory setting.



4.4.3 Customizing Definitions of the Mouse

To re-define the mouse


1. Click the **Setup** button  and select **Setup > Input Setting > Mouse**.
2. Select **Wheel Up**, **Wheel Down** or **One-Click** and the desired item from the drop-down menu. Then choose a new command from the right pane of the dialog box.
3. Click **Assign**.
4. Click **Apply** to save the settings.
5. Click **Clear All** to delete all definitions of the mouse or click **Default** to revert to the factory setting.

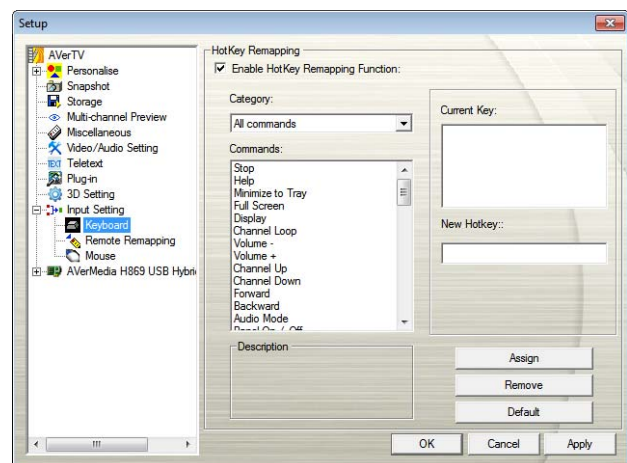


4.4.4 Customizing Definitions of the Keyboard (Hot Keys)

You can use the default hot keys or create your own hot keys.

To re-define the shortcut keys

1. Click the **Setup** button  on the control panel and select **Setup > Input Setting > Keyboard**.
2. Select the signal status from the **Category** drop-down menu.
3. Choose a command that you want to specify a new hot keys.
4. Assign hotkey combination to the command that you use most often.
5. Click **Assign**. Or you can click **Remove** to delete hotkeys.




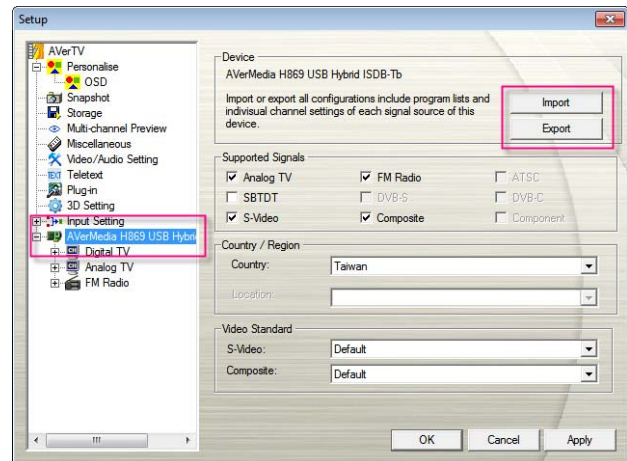
It is recommended to use an unassigned key to use as your new keys.

4.5 Configurations Import and Export

After setting up the device, all configurations can be saved as a file (.adi). Thus, resetting-up is not required unless the adi. file has been removed.

To import or export the file of all configurations

1. Click the **Setup** button  and in the **Setup** dialog box, select an available AVerMedia device in the left pane.
2. Click **Export** button. Then the **Save As Dialog** appears for users to select the saving path.
3. Click **Import** button, and the **Open Dialog** appears for users to select the saved files.
4. Click **Apply** to save settings or click **Cancel** to abort without settings.





4.6 Setting Windows® Power Options

This option allows you save power by putting your computer in stand by or hibernate mode, power off, exit the application or log off from the computer while you are away from the computer.

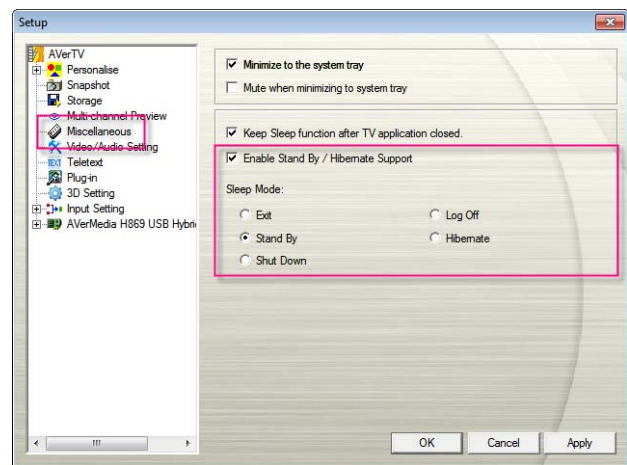
| | |
|------------------|--|
| Stand By | Stand By is a state in which your monitor and hard disks turn off, so that your computer uses less power. |
| Hibernate | Hibernation is a state in which your computer shuts down to save power but first saves everything in memory on your hard disk. |

To enable power saving support

1. Click the **Setup** button  and select **Miscellaneous**.
2. By default, the system is set to enable the **Stand By/Hibernation** option.
3. Select the desired power-saving settings.

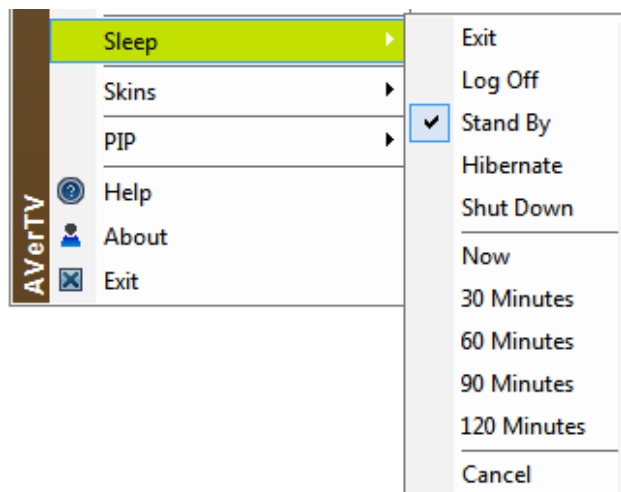
 If your computer has a problem with coming out of Stand By or Hibernate mode, please clear the Stand By/Hibernate option.

4. Then press the **Sleep** button on the remote control repeatedly to set the execution time.



or

1. Right-click on the TV monitor, point to **Sleep** and select the desired mode.
2. Right-click on the TV monitor again, point to **Sleep** and choose an execution time.
3. The time setting will be displayed on the TV monitor.
4. You can choose to keep or disable your setting when exiting the AVerTV 3D application.




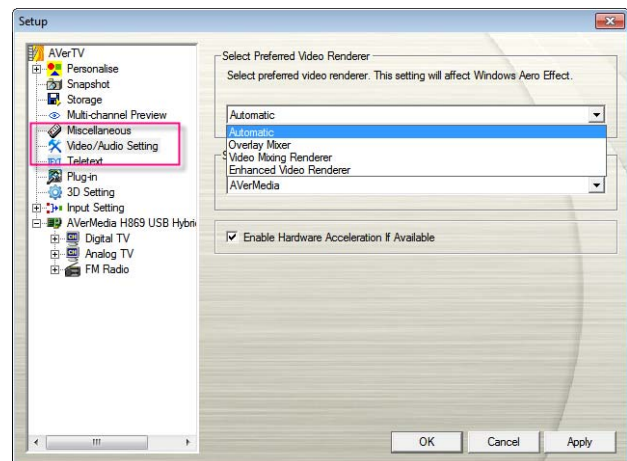
| Time setting mode | Description |
|------------------------------|---|
| Sleep 30/60/90/120 Minute(s) | Your computer goes into Stand By or Hibernate mode in 30/60/90/120 minutes. |
| Now | Your computer goes into Stand By or Hibernate mode in about 10 seconds. |
| Cancel | Your computer returns to original settings. |

4.7 Changing Renderer and Decoder

According to your graphic card and computer, you can choose a suitable renderer for the best watching experience. EVR (Enhanced Video Renderer) filter is only supported on Vista OS, and is not available on XP or older OS versions. The benefit of using EVR is that it can reduce color space transform costs and have better timing and synchronization mechanism which balances CPU resource well.

To choose the video renderer you prefer



1. Click the **Setup** button  and in the **Setup** dialog box, click the **Video/Audio Setting** icon on the left pane.
2. In the **Select Preferred Video Renderer** area, you can select preferred video renderer from the drop-down menu.
3. Click **Apply** to save settings or click **Cancel** to abort without settings.

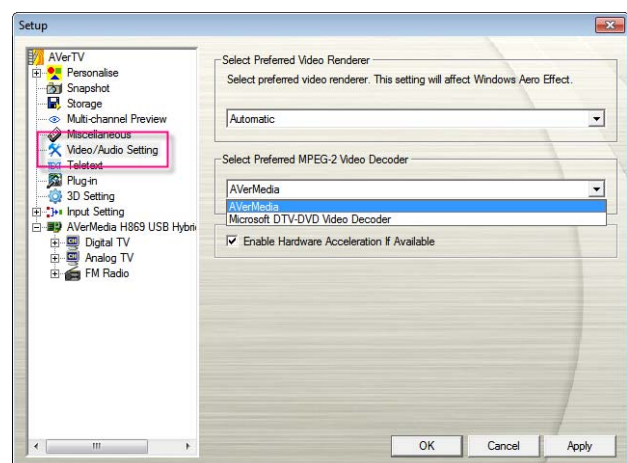


1. By default, the renderer is set to **Automatic** (Overlay Mixer for Windows XP system; Enhanced Video Renderer (EVR) for Windows Vista system).
2. Under Windows Vista system, if you choose **Overlay Mixer**, the Aero Effect will be affected. Then if you select **Video Mixing Renderer** again, you will be asked to restart the application to re-enable Aero Effect.



To choose the MPEG-2 video decoder you want

1. Click the **Setup** button  and select **Video/Audio Setting**.
2. In the **Select Preferred MPEG-2 Video Decoder** area, you can select preferred decoder from the drop-down menu.
 The MPEG-2 Video Decoders can be chosen only in Windows Vista system.
3. Click **Apply** to save settings or click **Cancel** to abort without saving.

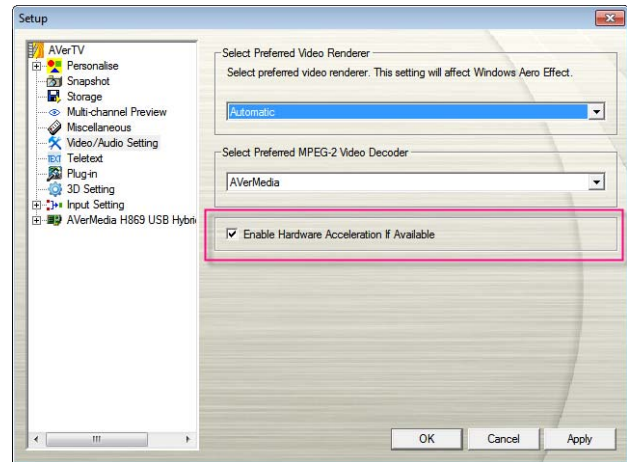


4.8 Enabling Hardware Acceleration

If your VGA card supports DxVA, the “**Enable Hardware Acceleration if available**” option will be enabled. To watch HDTV, it is recommended to select **Enable Hardware Acceleration If Available** to activate the video acceleration of the VGA card.

To enable hardware acceleration

1. Click the **Setup** button  and in the **Setup** dialog box, click the **Video/Audio Setting** icon on the left pane.
2. Select **Enable Hardware Acceleration If Available**.




Support H.264 DXVA only. Other video format not supported.

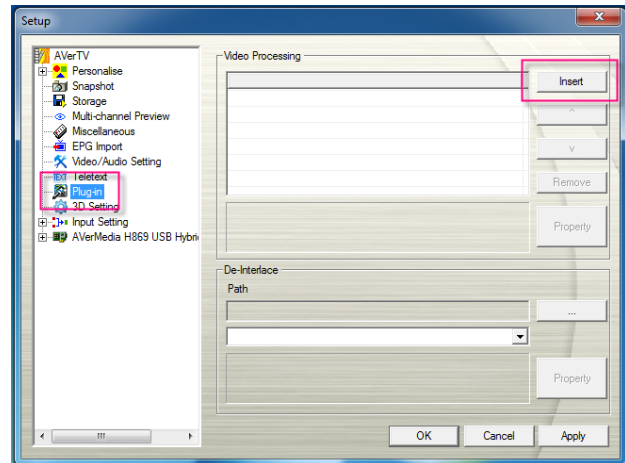
4.9 Supporting Plug-In Function (by country/region & analog TV only)

AVerTV 3D supports some plug-ins developed by user self or the 3rd-party.

To add a Plug-in

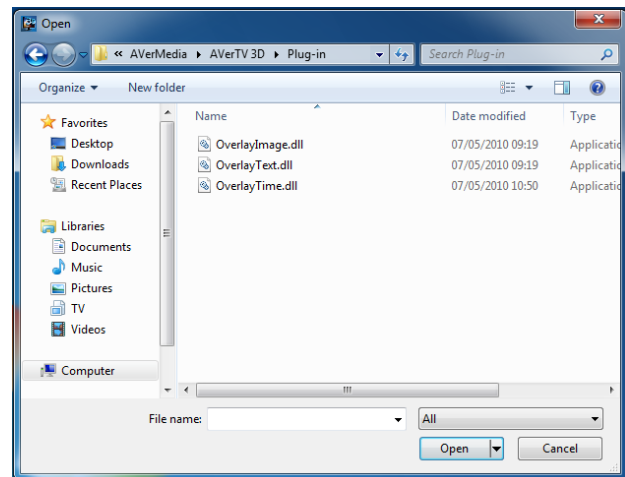
1. After installation, plug-in tools are saved in your computer.
The default destination is *C:\Program Files\AVerMedia\AVerTV\Plug-in*.



2. Click the **Setup** button . In the **Setup** dialog box, choose the **Plug-in** icon on the left pane.

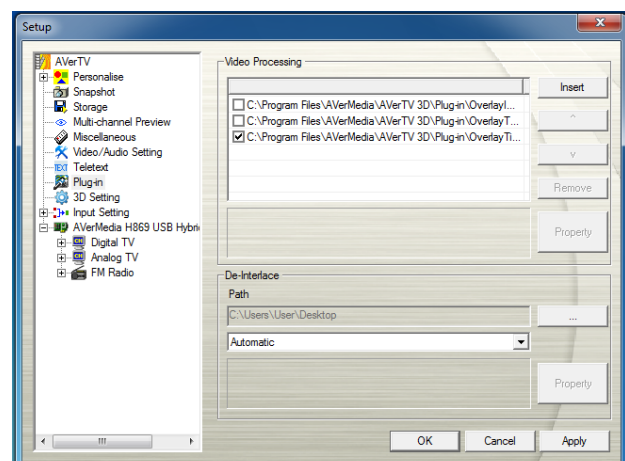


3. Click the **Insert** button to open a file explorer to choose a plug-in file (*.dll).

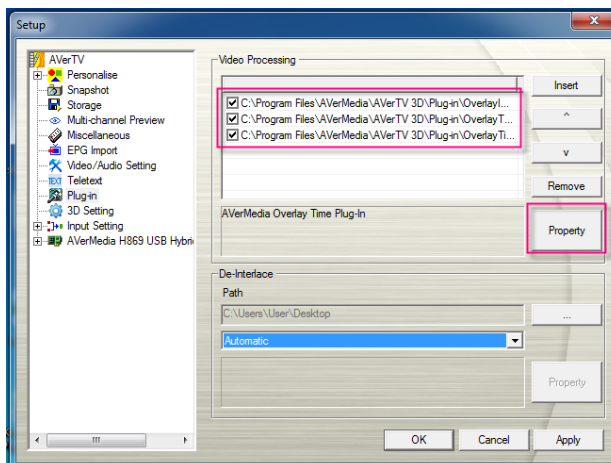
- Overlay Time: display current time
- Overlay Text: display preferred text
- Overlay Image: display a preferred image (*.bmp)



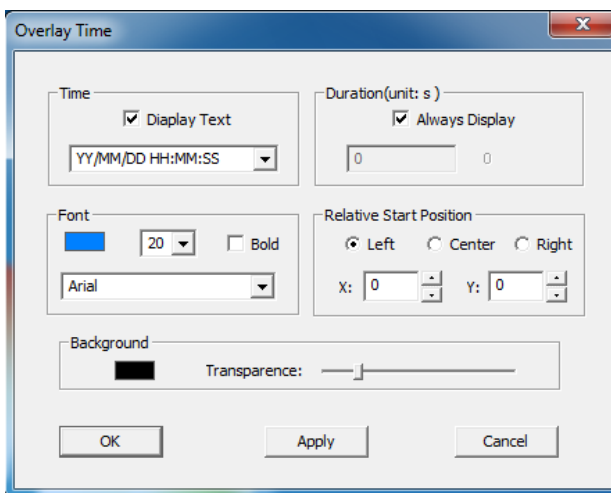
4. Click **Open** button to load the plug-in.
5. Select a plug-in and use  and  to adjust the priority of the plug-ins. This setting will be applied to the output result.



6. To configure the plug-in, click on the desired plug-in and click **Property**.




7. After configuration, click **Apply** to save the setting and click **OK** to exit the current dialog box. Or you can click **Cancel** to abort without saving.



8. Select the check box to activate the plug-in.
9. Click **Apply** to save the setting and click **OK** to exit the current dialog box. Or you can click **Cancel** to abort without saving.
10. The setting will be applied to the output result.

To remove a Plug-in

1. Click the **Setup** button  select **Plug-in**.
2. Select the plug-in that you want to remove, and then click **Remove**.




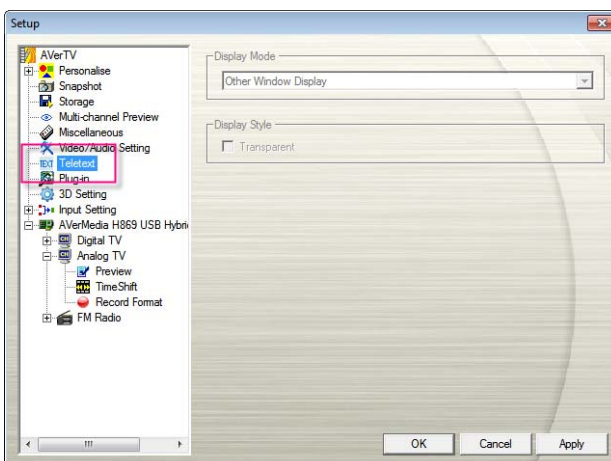
1. For more information related to the supported plug-ins or to download the plug-ins and SDK for developer, please visit AVerMedia website: <http://www.avermedia.com/>.
2. If you want to temporarily disable the Plug-in function, uncheck the checkbox at the left of the name of Plug-in.

Chapter 5 Teletext (PAL/SECAM only)

Teletext makes TV viewing a unique experience. It allows you to view teletext broadcasts from your television programs to get the most updated information on TV Schedules, News, Stock Market Prices, Concert & Theatre information and so on. Teletext information may not be available if there is no such service provided in your region or country.

5.1 Customizing the Display Mode

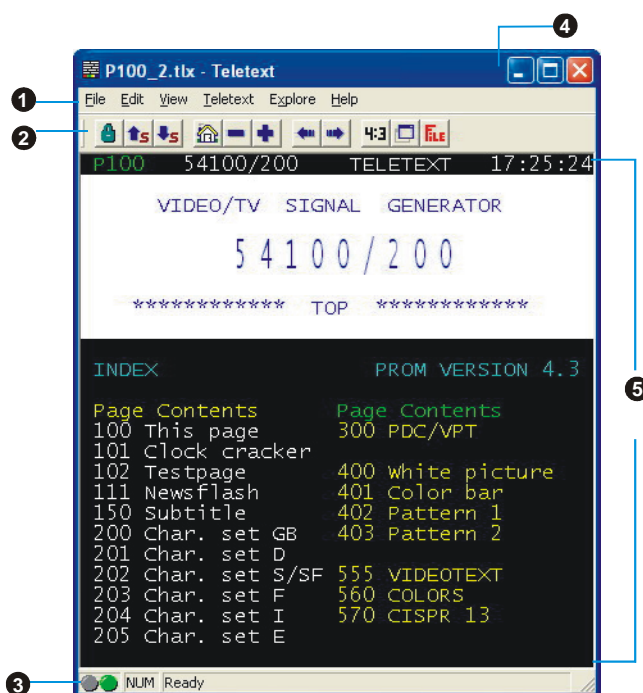
1. Click the **Setup** button  and select Teletext.
2. From the **Display Mode** drop-down menu, choose **Other Window Display** to open a new Teletext window or choose **Main Window Display** to overlay the Teletext window on the TV monitor.
3. Select the **Transparent** check box to make the Teletext window transparent.



5.2 Overview

Click the **Teletext** button  on the control panel to open the Teletext application as shown below.

For more information about Teletext, please see below in this chapter.



| | BUTTON | FUNCTION |
|---|------------------|--|
| 1 | Menu Bar | This contains the names of the available drop-down menu option menus. To access any of the menu items, simply click on it or hold down Alt and press the first character of each item. |
| 2 | Toolbar | It includes buttons that gives quick access to perform certain frequently used functions from the Menu Bar. |
| 3 | Status Bar | Status bar is located at the lower left corner of the window. It contains a short text message or explanation of the currently selected menu command. |
| 4 | Title Bar | This is located at the top of the window. It contains the current displayed page number or in hexadecimal page number of an active window. |
| 5 | Teletext Browser | Teletext information is displayed in this area. The information would be the TV schedules, news, stock market reports, concert & theater information and so on. |

5.3 Toolbar Buttons



Lock Sub page

Lock the current sub page. The upcoming transmitted sub pages will be stored in the Teletext Cache for later use.



Previous Sub page/ Next Sub page

Switch to the next or the previous sub page.



Home (Ctrl+H)

Connect to the Teletext home page which always goes to page 100, but page 100 may not be the primary Teletext source.



Previous Page (-) / Next Page (+)

Display the preceding or the succeeding Teletext in hexadecimal page number.



History Back / History Forward

Retrieve the previous page in the history list.

Move a page forward in the history list. The command is usable after one or more back steps in the history list.



TV Scale

Change the proportion of the Teletext window to 4 by 3.



Always On Top

Make Teletext Window float over the top of other applications.



Teletext File

Switch between the Teletext file which is opened from the previously saved file and the most recent Teletext information.

5.4 LED Lamp

Different LED color indicates different state.

Left LED Lamp:

Gray -- The system does not receive the Teletext broadcast data.

Green -- The system is receiving the Teletext broadcast data.

Right LED Lamp:

Green -- The cache in Teletext application is running less than 90% usage.

Yellow -- The cache in Teletext application is running over 90% usage.

Red -- The cache in Teletext application is running out.

5.5 Using Teletext

The following briefly describes how to use the Teletext features.

Teletext Page

There are two page numbers displayed on the first line of each Teletext page. The page number on the left is the page number that you have selected or keyed in. The other one in the middle of line is the page number of the currently displayed Teletext data.

The newly selected page number appears on the upper left corner of the page. Sometimes, this may take a while to retrieve the newly selected Teletext page. There will be no changes on the page when there is no page data transmitted with the number you have selected.

A Teletext page can be selected with one of the following methods:

- Key in the hexadecimal or Teletext page number using the numeric buttons of your keyboard or AVerMedia TV remote control.
- Press the + (positive) or – (negative) button to move to the succeeding or preceding Teletext page.

Copying a Teletext Page

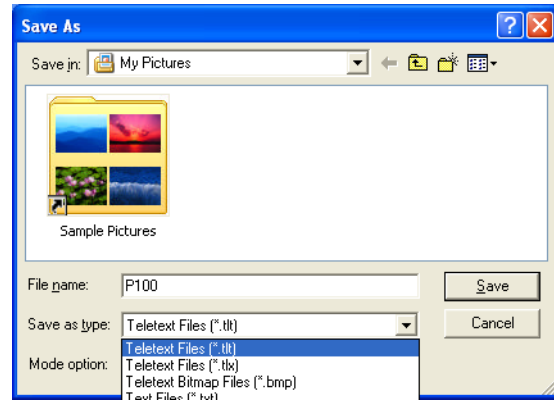
1. Simply click and drag over the text or the area that you want to copy using the mouse.
2. Choose **Copy** from the **Edit** menu (*Alt+E, C*) or press *Ctrl+C*.
3. You can then paste the contents of the Teletext page in TXT or BMP format to a document you are working with.

Saving a Teletext Page

Some Teletext pages include a number of subpages. If the file has subpages, Teletext will also save the existing subpages.

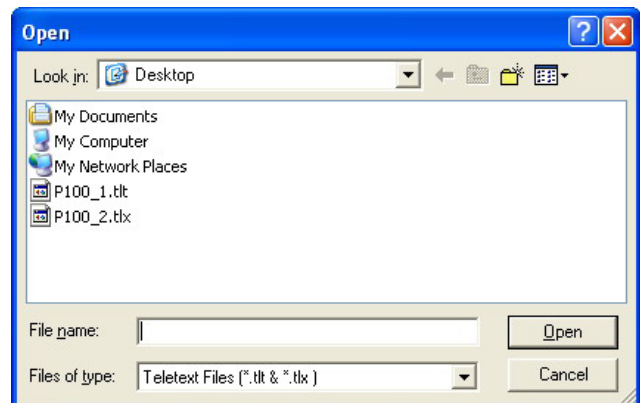
1. A Teletext page can be saved using one of the following ways:
 - To automatically save the file using the displayed Teletext page as the filename and the default file format, choose **Save** from the **File** menu or press *Ctrl+S*.
 - To save the file by specifying your own filename and different file format, choose **Save As** from the **File** menu or press *Ctrl+A*.
2. A **Save As** dialog box will appear
3. Select the file format to use for saving the Teletext page. You can save the Teletext page in.

| | |
|------------|----------------------------|
| TXT | Text file format |
| BMP | Windows bitmap file format |
| TLT | Teletext file format |
| TLX | Teletext file format |
4. Enter a filename and click **OK**.



Opening a Teletext Page

1. Choose **Open** from the **File** menu or press *Ctrl+O*.
2. From the Open dialog box, select the file containing the teletext page you want and click **Open**.



Opening Another Teletext Window

- Choose **New Window** from the **File** menu or press *Ctrl+W*.

Closing the Active Teletext Window

- Choose **Close Window** from the **File** menu or press *Ctrl+L* to close the active Teletext page window.

Chapter 6 Hot Keys

The following is the default definition:

| Hot Key | Description | Function |
|------------------------------|--|---|
| UP/DOWN ARROW | Channel or Frequency Up/Down | Press to go to the next upper/lower TV/Radio channel. |
| Back / L | Channel Loop | Press to go to the previously accessed TV/Radio channel. |
| NUMERIC KEYS | Select Channel | Use NUMERIC KEYS to directly enter the TV/Radio channel number. |
| ESC | Stop or, Change back to Normal View | Stop (playback, recording, TimeShift, or Multi-Channel Preview). Or change full screen back to normal view. |
| F1 | Help | Open the Users Manual. |
| F2 | Minimize | Minimize the application and an icon will appear in the notification area. To return to the previous screen, double click the icon again. |
| F5 | Full Screen | Show TV/Video in full screen. |
| F6 | Display (OSD) information | Display information on the TV monitor. |
| F8 | Multi-Channel Preview | Press to perform Multi-Channel Preview function. |
| +/- (on your numeric keypad) | Volume | Press to increase or decrease the volume level. |
| LEFT/ RIGHT ARROW | Rewind/ Fast Forward | Press to rewind or fast forward (for playback and TimeShift). |
| A | Audio Mode | Choose between available languages. |
| D | Show/Hide TV Monitor Panel | Toggles between showing and hiding the panel on the TV monitor window. |
| M | Mute | Turn off/on the sound. |
| P | Play / Pause | Play/Pause (for playback, recording, and TimeShift). |
| Ctrl + N | Play Next File | Play the next file in the playlist. |
| Ctrl + P | Play Previous File | Play the previous file in the playlist. |
| Ctrl + R | Record | Start recording. |

| | | |
|-----------|---------------|---|
| Ctrl + S | Snapshot | Capture an image (or a continuous sequence of images). |
| Ctrl + T | TimeShift | Enable the TimeShift function. |
| Insert | Transparent | Make Teletext window transparent. (Only available for Teletext overlay mode.) |
| Page Up | Previous page | Go to the preceding Teletext page. |
| Page Down | Next page | Go to the succeeding Teletext page. |
| Home | Home page | Go the Teletext home page. |



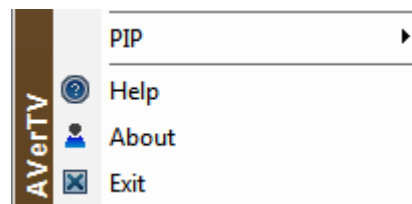
To customize the definitions of the Keyboard (Hot Keys), please refer to the section **Customize Definitions of the Keyboard (Hot Keys)**.




Chapter 7 Customer Service

The AVerTV 3D application provides a convenient tool, which allows users to obtain product information and service easily via our website. Please make sure that you have already connected to the Internet.

To do this

1. Right-click on the TV monitor window.
When a menu list pops up, choose **About**.



2. When an information dialog box appears, click  to access the product information webpage. Or you can click  to connect to our technical support webpage.
3. To exit the current dialog box, click .



www.avermedia.com

Chapter 8 Appendix

8.1 Editing EPG Import Files

8.1.1 EPG File Mapping (Index File *.idx)

The EPG index file (*.idx) are provided to enhance user convenience of importing EPG files (*.avr and *.ndx).

Each EPG file (*.avr or *.ndx) contains EPG data only for one channel. To save time of importing EPG files one by one, you can turn them into one file (*.idx) and import the EPG of many channels at one time. You can also share the index files with others.

Index File format: The statement of index file is the same with XML, which is composed of **Tags**, **Elements** and **Attributes**. (All the keywords are case-sensitive.)

Statement:

```
<aver_epg_mapping>
  <country name= "[country ISO3]" region="[location]">
    <analog>
      <ch no = "[channel number]" file_format = "[file format number]">
        [file name]
      </ch>
    </analog>
  </country>
</aver_epg_mapping>
```

| Tag | Description |
|-------------------------|--|
| aver_epg_mapping | Indicating this file contains the mapping table of channels and EPG data. |
| analog | Indicating all configurations in this tag are for analog TV/Radio. |
| ch | Indicating what EPG files are in the very channel. Only file name is required. |

| Tag | Attribute | Description | |
|------------------------------|-------------|-----------------|-----------------------------------|
| ch | no | channel number | |
| | file_format | No. | EPG file format |
| | | 1 | AverMedia EPG file format (*.avr) |
| | | 2 | JTV EPG file format (*.ndx) |
| country (Optional) | name | Country (*Note) | Value (ISO code) |
| | | Russia | RUS |
| | | Ukraine | UKR |

| | region | Country | Value (location) |
|--|--------|---------|------------------|
| | | Russia | Москва |
| | | | Санкт-Петербург |

☒ **Note:** The abbreviation of country name is based on ISO 3166 alpha-3.

Example:

1. First create a file named "MyEpg.idx".
2. Then edit the file as below.

```
<aver_epg_mapping>

  <country name= " RUS " region= " Москва ">

    <analog>

      <ch no = "1" file_format ="2">ch1.ndx</ch>

      <ch no = "2" file_format ="2">ch2.ndx</ch>

      <ch no = "3" file_format ="2">ch3.ndx</ch>

    </analog>

  </country>

</aver_epg_mapping>
```

8.1.2 Editing AVerMedia EPG File Format (*.avr)

If you want to import the EPG files for those channels without EPG files provided, you can make it yourself. Once you create the AVerMedia EPG file, you are able to import it.

To do this:

Statement:

```
<averepg>

  <ch name = "[channel name]">

    <program>

      <title>[program name]</title>

      <description>[program description]</description>

      <start>[start time YYYYMMDDHHMMSS]</start>

      <end>[start time YYYYMMDDHHMMSS]</end>

      <type>[program type number]</type>

      <parentrating>[parental rating]</parentrating>

    </program>

  </ch>

</averepg>
```

| Tag | Description | | |
|------------------------|--|-------------------|---------|
| averepg | Indicating this file contains EPG data. | | |
| ch | Put all channel information inside this tag. | | |
| program | Put all program information inside this tag. | | |
| description (Optional) | The description of program content | | |
| title | Program name | | |
| start | The start time of the program. Format: YYYYMMDDhhmm Example: 2008/8/15 8AM ➔ 200804150800 | | |
| end | The end time of the program. Format: YYYYMMDDhhmm Example: 2008/8/15 9PM 30 ➔ 200804152130 | | |
| type (Optional) | The standard for program type. Available types are shown as below: | | |
| | 0 | Undefined Content | 6 Music |

| | | | | |
|--------------------------------|---|---|----|-----------|
| | 1 | Movie / Drama | 7 | Arts |
| | 2 | News | 8 | Social |
| | 3 | Show | 9 | Education |
| | 4 | Sports | 10 | Leisure |
| | 5 | Youth | 11 | Special |
| Parentrating (Optional) | | The programs can be watched or listened above this age. You can fill 0 for all ages. | | |



The abbreviation of country name is based on ISO 3166 alpha-3.

Example:

1. First create a file named "MyEpg.idx".
2. Then edit the file as below.

Assume start time = 2008/4/15 6:00 PM (200804151800)

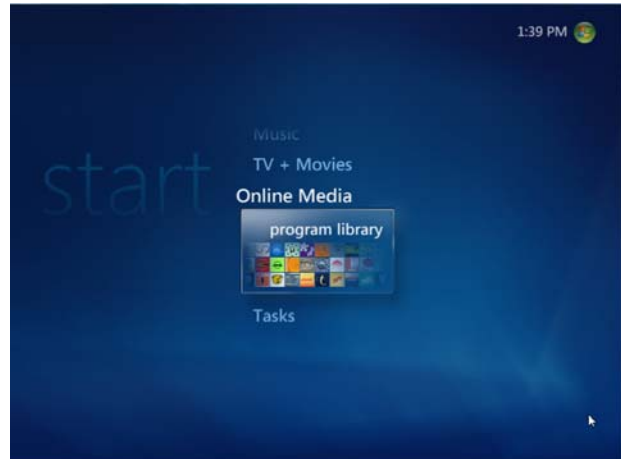
Assume end time = 2008/4/15 7:30 PM (200804151930)

```
<averepg>
  <ch name = "EPSN">
    <program>
      <title>Travel news</title>
      <description>
        Introduction all available travel lines.
      </description>
      <start>200804151800</start>
      <end>200804151930</end>
      <type>2</type>
      <parentrating>12</parentrating>
    </program>
    <program>
      <title>Live NBA</title>
      <description>Sports</description>
      <start>200804151930</start>
      <end>200804152000</end>
      <type>4</type>
      <parentrating>0</parentrating>
    </program>
  </ch>
</averepg>
```

8.2 Video Gaming Plug-in (for Microsoft Vista / Win 7 MCE only)


MCE “Video Gaming Plug In” support is for Vista MCE only. After installing the driver, you can access it through the **program library** in **Online Media**. This function enables you to watch composite/S-Video signal source or play games in Vista MCE platform. (Playing games with MCE may cause delay, but you can choose “Video Gaming Plug In” to avoid it and enjoy real-time game play.)

1. Start the **Media Center** in Vista.
2. Select **Online Media** → **program library**.



3. Select **Video Gaming Plug In**.



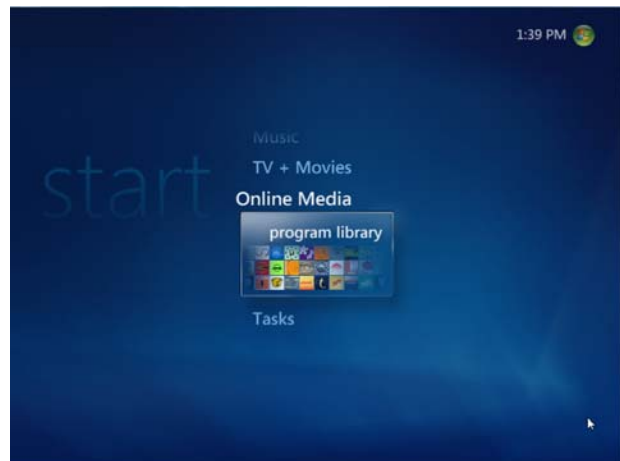
4. Select the video source you want to view via **Video Gaming Plug In**.
5. Click button  to view images in a full-screen window. Press **ESC** to exit the full-screen mode.






8.3 Video Quality Enhancement Plug-in (for Microsoft Vista / Win 7 MCE only)

MCE “Video Quality Enhancement Plug-in” support is for Vista MCE only. After installing the driver, you can access it through the **program library** in **Online Media**. This function enables you to adjust the **Brightness**, **Contrast**, **Hue**, **Saturation** and **Sharpness** until the image color is accurate. The setting you made will be applied to Analog TV, and composite/S-Video signal source.




1. Start the **Media Center** in Vista.
2. Select **Online Media** → **program library**.
3. Select **Video Quality Enhancement Plug-in**.
4. Select the item you want to adjust.



- Use the following buttons to adjust the value of the item.

| | |
|---|---|
|  | <ul style="list-style-type: none"> Decrease Brightness and Hue values by 32. Decrease Contrast and Saturation values by 16. Decrease Sharpness value by 8. |
|  | <ul style="list-style-type: none"> Decrease Brightness and Hue values by 16. Decrease Contrast and Saturation values by 8. Decrease Sharpness value by 4. |
|  | <ul style="list-style-type: none"> Decrease the item value by 1. |
|  | Reset the item value back to its default. |
|  | <ul style="list-style-type: none"> Increase the item value by 1. |
|  | <ul style="list-style-type: none"> Increase Brightness and Hue values by 16. Increase Contrast and Saturation values by 8. Increase Sharpness value by 4. |
|  | <ul style="list-style-type: none"> Increase Brightness and Hue values by 32. Increase Contrast and Saturation values by 16. Increase Sharpness value by 8. |




- Click button  to reset all items back to their default settings.
- Or click button  to save all the settings.
- If you want to exit without saving, click button .



Remote Control

You can use remote control to turn on/off the programs, select channels, adjust volume and so on. When the AVerTV 3D is closed, pressing the **POWER** button of remote control for 3 seconds to shut down the computer immediately.



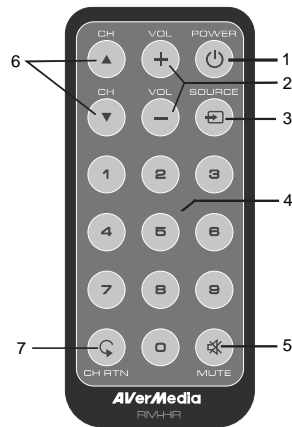
1. To control two or more than two cards/devices with a remote control, it is recommended to enable the multiple infrared receiver function first. To do this, right click AVerQuick icon  at the lower right corner of the screen, choose "**Setting**", "**Remote control**" tab and select check boxes next to the device name. Please check your supported remote control model before activating this function.
2. To control 3D functions (3D View / 3D Record / see3D View / see3D Record) with the remote control, please first remap the remote keys. Refer to the section **Changing Definitions of the Remote Control Buttons** for details.

Battery Safety Information:



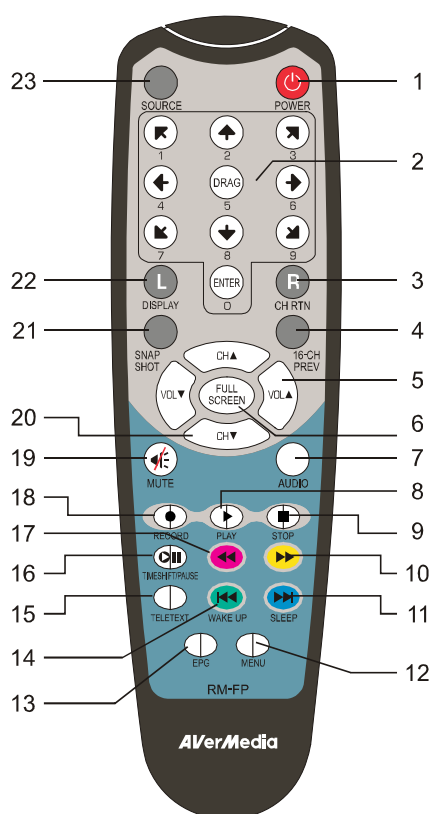
1. Store the batteries in a cool dry place.
2. Do not dispose of used batteries in domestic waste. Dispose of batteries at special collection points or return to point of sale if applies.
3. Remove the batteries during long periods of non-use. Always remove exhausted batteries from the remote control. Battery leakage and corrosion can damage this remote control, dispose of batteries safely.
4. Do not mix old and new batteries.
5. Do not mix different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
6. Do not dispose of batteries in a fire. The batteries may explode or leak.
7. Never short circuit the battery terminals.

Model 1 (RM-HR)



| Button | Description |
|--------------------|---|
| 1. Power | Turn on/off the application |
| 2. VOL +/- | Volume up/down. |
| 3. Source | Switch between available signal sources. |
| 4. Numeric Buttons | Select a TV channel. |
| 5. MUTE | Turn on/off the sound. |
| 6. CH ▲/▼ | Go up or down to the next active channel. |
| 7. CH RTN | Go to the previously selected channel. |

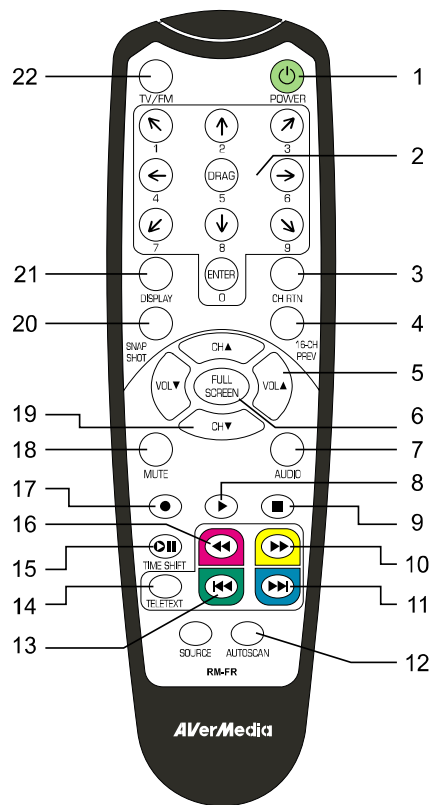
Model 2 (RM-FP)



| Button | Description |
|--------------------|--|
| 1. POWER | Turn on/off the application. |
| 2. NUMERIC BUTTONS | <ul style="list-style-type: none"> Select a TV channel. Under the Multi-Channel Preview mode, use ← ↑ → ↓ to highlight the intended channel. |
| 3. CH RTN | Go to the previously selected channel. |
| 4. 16-CH PREV | Preview 4 ~ 64 Channels. (By default, 16 channels will be displayed.) |
| 5. VOL ▲/▼ | Volume up/down. |
| 6. FULL SCREEN | Display TV in full screen. |
| 7. AUDIO | Switch between available audio modes. |
| 8. ► (Play) | Play the last recorded or played file. |
| 9. ■ (Stop) | <ul style="list-style-type: none"> End the playback or recording. End the TimeShift mode and return to real-time TV or Radio mode. |
| 10. ►► (Forward) | <ul style="list-style-type: none"> Advance the playback. Jump to the Teletext page of the corresponding color according to this button. |
| 11. SLEEP ►►► | <ul style="list-style-type: none"> Go to the next file in the playlist. Set the time to put your computer in Stand By or Hibernate mode. Jump to the Teletext page of the corresponding color according to this button. |
| 12. MENU | Display or hide the Control Panel . |
| 13. EPG | Launch the Electronic Programme Guide. |

| | |
|----------------------|--|
| 14. WAKE UP ⏮ | <ul style="list-style-type: none"> - Go to the previous file in the playlist. - Set the time to bring your computer out of Stand By or Hibernate mode. - Jump to the Teletext page of the corresponding color according to this button. |
| 15. TELETEXT | View Teletext (PAL/SECAM) / Closed Caption (NTSC) information |
| 16. TIMESHIFT /PAUSE | <ul style="list-style-type: none"> - Freeze the playback. - Switch from real-time TV or Radio to TimeShift mode. |
| 17. ⏮ (Rewind) | <ul style="list-style-type: none"> - Rewind the playback. - Jump to the Teletext page of the corresponding color according to this button. |
| 18. ● (Record) | Switch to PVR mode and record the current program or video into your hard drive. |
| 19. MUTE | Turn on/off the sound. |
| 20. CH ▲/▼ | Go up or down to the next active channel. |
| 21. SNAPSHOT | Capture the on-screen image to a bitmap file. |
| 22. DISPLAY | Display information. |
| 23. SOURCE | Switch between available signal source. |

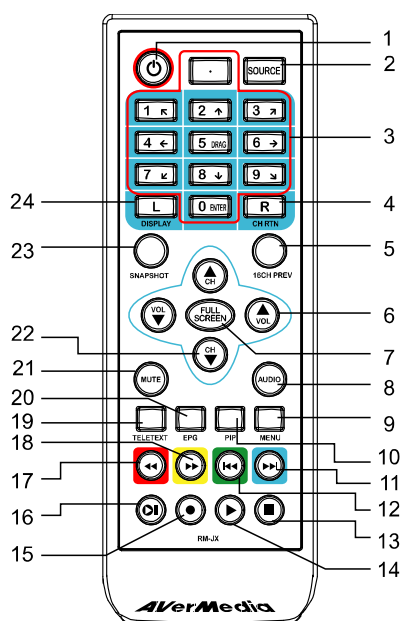
Model 3 (RM-JC)



| Button | Description |
|--------------------|---|
| 1.Power | Turn on/off the application |
| 2.Numeric Buttons | <ul style="list-style-type: none"> - Select a TV channel. - Under the Multi-Channel Preview mode, use ↑ ↓ ← → to highlight the intended channel. |
| 3.CH RTN | Go to the previously selected channel. |
| 4.16-CH PREV | Preview 4 ~ 64 channels. (By default, 16 channels will be displayed.) |
| 5. VOL ▲/▼ | Increase/decrease the volume. |
| 6.FULL SCREEN | Display TV or video in full screen. |
| 7. AUDIO | Switch between available audio modes. |
| 8. ▶ (Play) | Play the last recorded or played file. |
| 9. ■ (Stop) | <ul style="list-style-type: none"> - End the playback or recording. - End the TimeShift mode and return to real-time TV or FM mode. |
| 10. ▶▶ (Forward) | <ul style="list-style-type: none"> - Advance the playback. - Jump to the Teletext page of the corresponding color according to this button. |
| 11. ▶▶ (Next File) | <ul style="list-style-type: none"> - Go to the next file in the playlist. - Set the time to put your computer in Standby or Hibernate mode. - Jump to the Teletext page of the corresponding color according to this button. |
| 12. AUTOSCAN | Display or hide the Control Panel. |

| | |
|-----------------------|---|
| 13. ⏮ (Previous File) | <ul style="list-style-type: none"> - Go to the previous file in the playlist. - Set the time to bring your computer out of Standby or Hibernate mode. - Jump to the Teletext page of the corresponding color according to this button. |
| 14. TELETEXT | View Teletext information. |
| 15. TIMESHIFT/PAUSE | <ul style="list-style-type: none"> - Freeze the playback. - Switch from real-time TV or FM to Time Shift mode. |
| 16. ⏮ (Rewind) | <ul style="list-style-type: none"> - Rewind the playback. - Jump to the Teletext page of the corresponding color according to this button. |
| 17. ● (Record) | Switch to PVR mode and record the current program or video into your hard drive. |
| 18. MUTE | Turn on/off the sound. |
| 19. CH ▲/▼ | Go up or down to the next active channel. |
| 20. SNAPSHOT | Capture the on-screen image to a bitmap file. |
| 21. DISPLAY | Display information. |
| 22. TV/FM | Switch between available signal sources. |

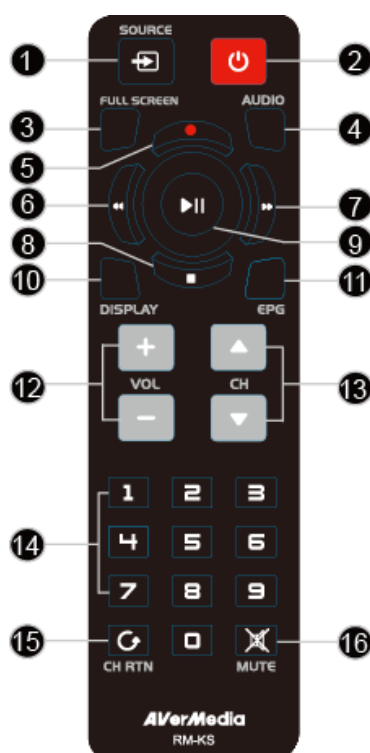
Model 4 (RM-JX)



| Button | Description |
|-----------------------|--|
| 2. POWER | Turn on/off the application |
| 3. SOURCE | Switch between available signal sources. |
| 4. Numeric Buttons | <ul style="list-style-type: none"> Select a TV channel. Under the Multi-Channel Preview mode, use $\uparrow \downarrow \leftarrow \rightarrow$ to highlight the intended channel. |
| 5. CH RTN | Go to the previously selected channel. |
| 6. 16-CH PREV | Preview 4 ~ 64 Channels. (By default, 16 channels will be displayed.) |
| 7. VOL ▲/▼ | Volume up/down. |
| 8. FULL SCREEN | Display TV in full screen. |
| 9. AUDIO | Switch between available audio modes. |
| 10. MENU | Display or hide the Control Panel . |
| 11. PIP | Display or hide the PIP window. |
| 12. SLEEP ►► | <ul style="list-style-type: none"> Go to the next file in the playlist. Set the time to put your computer in Stand By or Hibernate mode. Jump to the Teletext page of the corresponding color according to this button. |
| 13. WAKE UP ◀◀ | <ul style="list-style-type: none"> Go to the previous file in the playlist. Set the time to bring your computer out of Stand By or Hibernate mode. Jump to the Teletext page of the corresponding color according to this button. |
| 14. ■ (Stop) | <ul style="list-style-type: none"> End the Playback or recording. End the TimeShift mode and return to real-time TV or Radio mode. |
| 15. ► (Play) | Play the last recorded or played file. |
| 16. ● (Record) | Switch to PVR mode and record the current program or video into your hard drive. |
| 17. TIMESHIFT / PAUSE | <ul style="list-style-type: none"> Freeze the playback. Switch from real-time TV or Radio to TimeShift mode. |
| 18. ►► (Forward) | <ul style="list-style-type: none"> Advance the playback. Jump to the Teletext page of the corresponding color according to this button. |

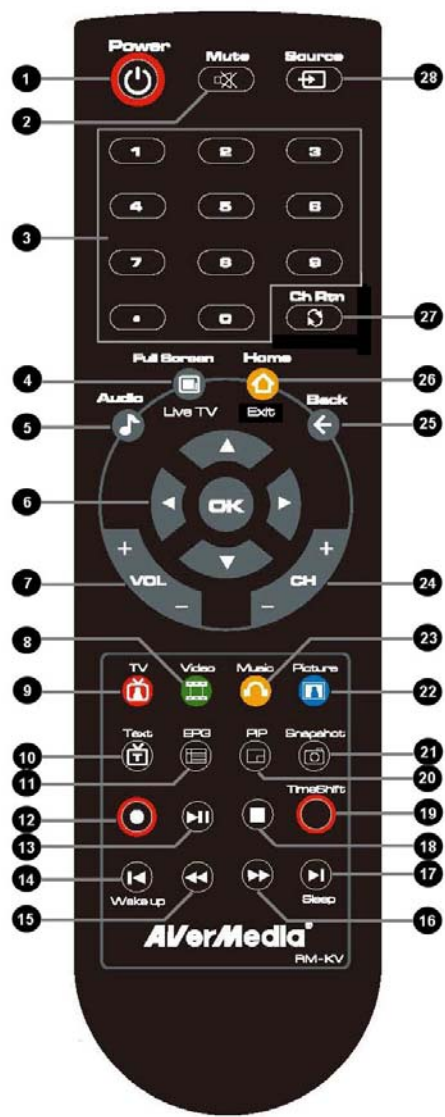
| | |
|-----------------|--|
| 19. ◀◀ (Rewind) | <ul style="list-style-type: none"> - Rewind the playback. - Jump to the Teletext page of the corresponding color according to this button. |
| 20. TELETEXT | View Teletext/MHEG-5/ Closed Caption information. |
| 21. EPG | Launch the Electronic Program Guide. |
| 22. MUTE | Turn on/off the sound. |
| 23. CH ▲/▼ | Go up or down to the next active channel. |
| 24. SNAPSHOT | Capture the on-screen image to a bitmap file. |
| 25. DISPLAY | Display information. |



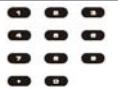


Model 5 (RM-KS)


























| Button | Description |
|---------------------|---|
| 1. SOURCE | Switch between available signal sources. |
| 2. POWER | Turn on/off the application |
| 3. FULL SCREEN | Display TV in full screen. |
| 4. AUDIO | Switch between available audio modes. |
| 5. ● (Record) | Switch to PVR mode and record the current program or video into your hard drive. |
| 6. ◀◀ (Rewind) | Rewind the playback. |
| 7. ▶▶ (Forward) | Advance the playback. |
| 8. ■ (Stop) | <ul style="list-style-type: none"> - End the Playback or recording. - End the TimeShift mode and return to real-time TV or Radio mode. |
| 9. ▶ (Play) / PAUSE | Play the last recorded or played file. / Freeze the playback. |
| 10.DISPLAY | Display information. |
| 11.EPG | Launch the Electronic Program Guide. (DVB-T only) |
| 12.VOL + / - | Volume up/down. |
| 13.CH ▲/▼ | Go up or down to the next active channel. |
| 14.Numeric Buttons | <ul style="list-style-type: none"> - Select a TV channel. - Under the 16-Channel preview mode, use 2 4 6 8 to highlight the intended channel. |
| 15.CH RTN | Go to the previously selected channel. |
| 16.MUTE | Turn on/off the sound. |

Model 6 (RM-KV)

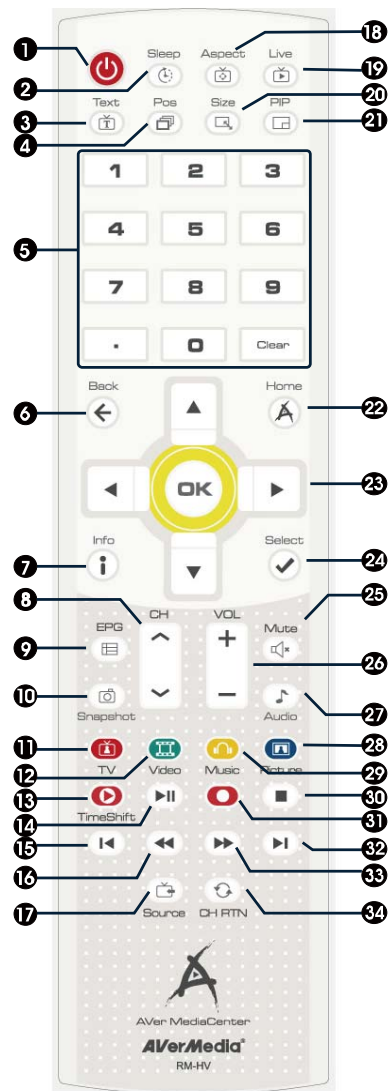


| | Button | Description |
|-----|---|--|
| (1) |  | Turn on/off the application. |
| (2) |  | Turn off/on the sound. |
| (3) |  | Use numeric buttons to select a channel. |
| (4) |  | Display TV in full screen. |
| (5) |  | Change between available audio modes. |




























| | | |
|------|---|--|
| (6) |  | <p>Main Screen: Use the arrow button to navigate all on-screen items. Use OK to confirm the selection. (This function is only available for AVer MediaCenter)</p> <p>PIP Mode: Change size or position of the selected screen by the arrow buttons. (This function is only available for AVer MediaCenter)</p> |
| (7) |  | Volume up / Volume down. |
| (8) |  | <p>Main Screen: A shortcut to the main menu-- "Video". (This function is only available for AVer MediaCenter)</p> <p>Teletext Mode: Jump to the teletext page of the corresponding color according to this button.</p> |
| (9) |  | <p>Main Screen: A shortcut to the main menu-- "TV". (This function is only available for AVer MediaCenter)</p> <p>Teletext Mode: Jump to the teletext page of the corresponding color according to this button.</p> |
| (10) |  | View Teletext / Close Caption information. |
| (11) |  | View EPG information. (This function is only available for digital TV) |
| (12) |  | Record the current program. |
| (13) |  | Play the selected file or temporarily freeze the playback. |
| (14) |  Wakeup | <p>- Go to the previous item in the playlist.</p> <p>- Set the time to bring your computer out of Stand By or Hibernate mode. (This function is only available for AVerTV 3D)</p> |
| (15) |  | Move backwards in intervals. |
| (16) |  | Skip forward in intervals. |
| (17) |  Sleep | <p>- Go to the next item in the playlist.</p> <p>- Set the time to put your computer into Stand By / Hibernate mode, exit the application or turn off the computer. (This function is only available for AVerTV 3D)</p> |
| (18) |  | Stop the playback, recording, TimeShift, etc. |
| (19) |  | <p>- Switch from real-time TV or Radio to TimeShift mode.</p> <p>- Temporarily freeze the playback. (This function is only available for AVerTV 3D)</p> |

| | | |
|------|---|--|
| (20) |  | Activate the Picture in Picture (PIP) / Multi-Channel Display function. |
| (21) |  | Capture an image or a continuous sequence of images. |
| (22) |  | <p>Main Screen: A shortcut to the main menu--“Pictures”. (This function is only available for AVer MediaCenter)</p> <p>Teletext Mode: Jump to the teletext page of the corresponding color according to this button.</p> |
| (23) |  | <p>Main Screen: A shortcut to the main menu--“Music”. (This function is only available for AVer MediaCenter)</p> <p>Teletext Mode: Jump to the teletext page of the corresponding color according to this button.</p> |
| (24) |  | Channel up and channel down. |
| (25) |  | Go back to the previous page. (This function is only available for AVer MediaCenter) |
| (26) |  | <p>- Go to the main menu. (This function is only available for AVer MediaCenter)</p> <p>- Exit from CI/CA Information dialog. (This function is only available for the device supporting CI/CA interface.)</p> |
| (27) |  | Return to previously accessed channel. |
| (28) |  | Change between available signal sources. |

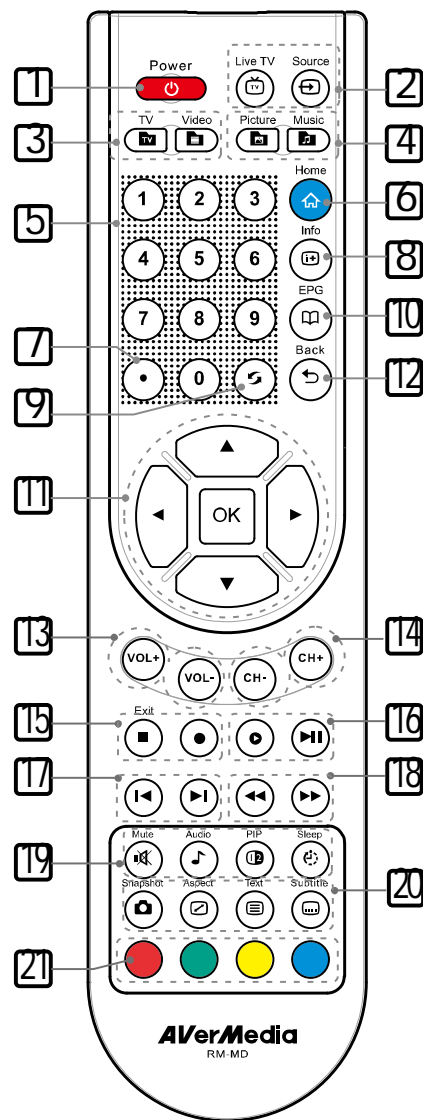
Model 7 (RM-HV)

















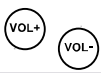












| | Button | Description |
|-----|--------|---|
| (1) | | Turn on the PC. / Turn on the application /Turn off the application. * To shut down the PC, press the button continuously for more than 3 seconds. |
| (2) | | Set the time to put your computer into Stand By / Hibernate mode, exit the application or turn off the computer. |
| (3) | | View Teletext / Close Caption information. |
| (4) | | X |
| (5) | | Use numeric buttons to select a channel. Under the multi-channel preview mode, use numeric button 2, 8, 4, 6 as the arrow $\uparrow \downarrow \leftarrow \rightarrow$ to highlight the intended channel and numeric button 0 to enter the intended channel. |
| (6) | | X |
| (7) | | Display information. |







| | | |
|------|---|--|
| (8) |  | Channel up and channel down. |
| (9) |  | View EPG information. |
| (10) |  | Capture an image or a continuous sequence of images. |
| (11) |  | Jump to the teletext page of the corresponding color according to this button. |
| (12) |  | Jump to the teletext page of the corresponding color according to this button. |
| (13) |  | Switch from real-time TV or Radio to TimeShift mode. |
| (14) |  | Play the selected file or temporarily freeze the playback. |
| (15) |  | - Go to the previous item in the playlist. - Set the time to bring your computer out of Stand By or Hibernate mode. |
| (16) |  | Under TimeShift mode press to move backward 10 seconds. |
| (17) |  | Change between available signal sources. |
| (18) |  | Enable or disable to keep original aspect ratio of the video source. |
| (19) |  | Display TV in full screen. |
| (20) |  | X |
| (21) |  | Activate the Picture in Picture (PIP) / Multi-Channel Display function. |
| (22) |  | When teletext is in <i>Main Window Display</i> mode, press to go to teletext homepage. |
| (23) |  | Under the multi-channel preview mode, use the arrow button to navigate all on-screen items and use OK to confirm the selection. |
| (24) |  | X |
| (25) |  | Turn off/on the sound. |
| (26) |  | Volume up / Volume down. |
| (27) |  | Change between available audio modes. |
| (28) |  | Jump to the teletext page of the corresponding color according to this button. |
| (29) |  | Jump to the teletext page of the corresponding color according to this button. |
| (30) |  | Stop the playback, recording, TimeShift, etc. |
| (31) |  | Record the current program. |
| (32) |  | - Go to the next item in the playlist. - Set the time to put your computer into Stand By / Hibernate mode, exit the application or turn off the computer. |
| (33) |  | - Under TimeShift mode press to skip forward 10 seconds. - Under playback mode press to Switch to next playback speed level. |
| (34) |  | Return to previously accessed channel. |

Model 8 (RM-MD)



| | Button | Description |
|----|---|---|
| 1. |  | Turn on the PC. / Turn on the application /Turn off the application. * To shut down the PC, press the button continuously for more than 3 seconds. |
| 2. |  | Display TV in full screen. |
| |  | Change between available signal sources. |
| 3. |  | Teletext R |
| |  | Teletext G |
| 4. |  | Teletext B |
| |  | Teletext Y |

| | | |
|-----|---|--|
| 5. | Numeric Buttons | Use numeric buttons to select a channel. Under the multi-channel preview mode, use numeric button 2, 8, 4, 6 as the arrow ↑↓←→ to highlight the intended channel and numeric button 0 to enter the intended channel. |
| 6. |  | When teletext is in <i>Main Window Display</i> mode, press to go to teletext homepage. |
| 7. |  | This button will function as dot mark. |
| 8. |  | Display information. |
| 9. |  | Return to previously accessed channel. |
| 10. |  | View EPG information. |
| 11. |  | Under the multi-channel preview mode, use the arrow button to navigate all on-screen items and use OK to confirm the selection. |
| 12. |  | X |
| 13. |  | Volume up / Volume down. |
| 14. |  | Channel up and channel down. |
| 15. |  | Stop the playback, recording, TimeShift, etc. *Close the current window under preview mode (e.g., CICA, EPG dialog, MHEG5, Teletext) |
| |  | Record the current program. |
| 16. |  | Switch from real-time TV or Radio to TimeShift mode. |
| |  | Play the selected file or temporarily freeze the playback. |
| 17. |  | - Go to the previous item in the playlist. - Set the time to bring your computer out of Stand By or Hibernate mode. |
| |  | - Go to the next item in the playlist. - Set the time to put your computer into Stand By / Hibernate mode, exit the application or turn off the computer. |
| 18. |  | Under TimeShift mode press to move backward 10 seconds. |
| |  | - Under TimeShift mode press to skip forward 10 seconds. - Under playback mode press to Switch to next playback speed level. |
| 19. |  | Turn off/on the sound. |
| |  | Change between available audio modes. |
| |  | Activate the Picture in Picture (PIP) / Multi-Channel Display function. |

| | | |
|-----|---|--|
| | Sleep  | Set the time to put your computer into Stand By / Hibernate mode, exit the application or turn off the computer. |
| 20. | Snapshot  | Capture an image or a continuous sequence of images. |
| | Aspect  | Enable or disable to keep original aspect ratio of the video source. |
| | Text  | View Teletext / Close Caption information. |
| | Subtitle  | Enabling the Subtitle Function |
| 21. |  | Jump to the teletext page of the corresponding color according to this button. |